300N Multi-Function Wireless Router

Model # AR686WV2

User's Manual

Ver. 1A

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FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against radio interference in a commercial environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instructions in this manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interference.

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Chapter 1 Product Information

1.1 Introduction and safety information

Congratulations on your purchase of the Airlink101® AR686WV2 Wireless N 300 Green Router. This Router is recommended to be used with AirLink101® Wireless N 300 products to provide the best performance. The high bandwidth combined with extended wireless coverage delivers fast and reliable connections for all of your networking applications. The built-in gigabit switch highly increases the wired Ethernet speed.

The Green power saving technology intelligently reduces power consumption when no network activity is detected. A full range of security features such as WEP, WPA-PSK, and WPA2-PSK provide the highest level of wireless network security. The bundled EZ Setup Wizard allows you to set up the router with an easy-to-use user interface. Best of all, AR686WV2 works with all 802.11n / g / b network devices which ensures compatibility with the existing wireless products.

Other features of this router including:

- Support high wireless data rate of up to 300Mbps* with 802.11n standard
- Built-in 4-port full-duplex 10/100Mbps Switch to connect your wired network up to Fast Ethernet speeds, with cable length and link down power saving
- Support virtual server, ALG, DMZ and UPnP for various networking applications
- Support multiple sessions IPSec, L2TP and PPTP VPN pass-through
- Advanced NAT+SPI firewall with DoS detection prevents your network from outside attacks
- Wirelessly connect to another 4 AR686WV2 routers with WDS (Wireless Distribution System) supported
- Establish secured wireless connection via Easy Setup Button(WPS compatible)
- QoS (Quality of Service) designed for prioritizing multimedia data transmission (i.e. VoIP, online gaming or movie streaming, etc.)

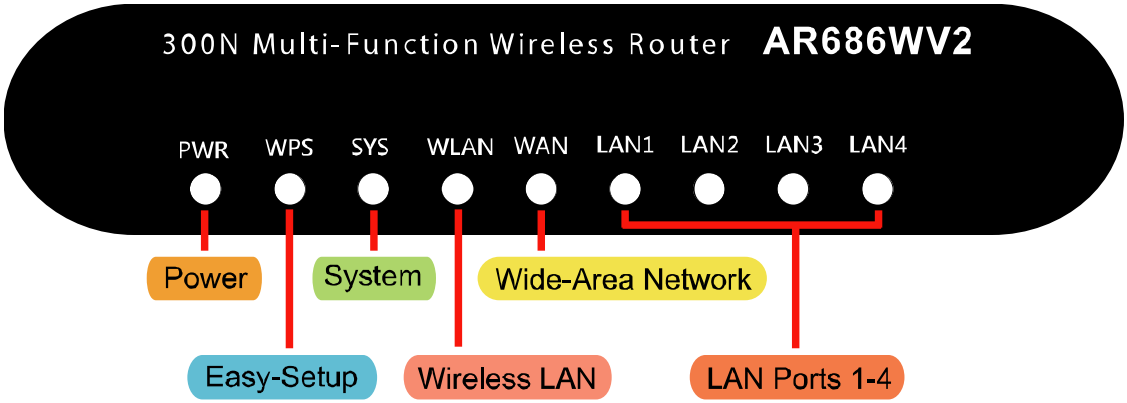
1.2 Package Contents

Before you start using this router, please check if there is anything missing in the package, and contact your dealer of purchase to claim for missing items:

1. Wireless N 300 Green Router with 2 un-detachable Antennas
2. Power Adapter
3. Quick Installation Guide
4. Ethernet Cable

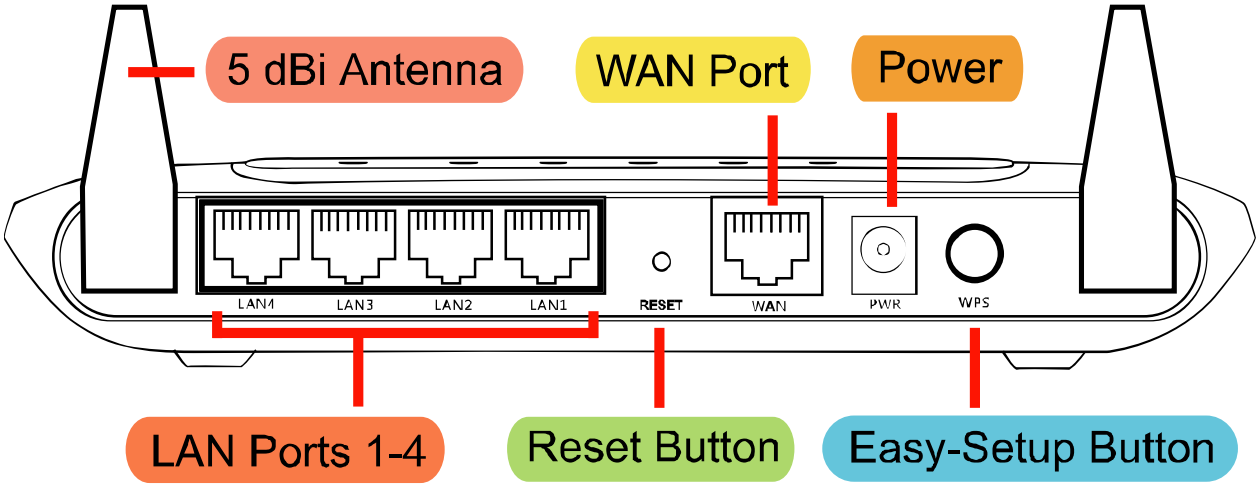
1.3 Familiar with your new Green Router

A. Front Panel



LEDs	Status	Description
Power	On	Power On
	Off	Power Off
Easy-Setup Button	Blinking	WPS Active
	Off	WPS Inactive
System	Blinking	System Function Normal
	Steady On / Off	System Loading / Malfunction
Wireless LAN	Flashing	Wireless Data Transmitting
	Off	Wireless Inactive
Wide-Area Network	On	WAN Active
	Flashing	WAN Data Transmitting
	Off	WAN Inactive / Malfunction
LAN Ports 1 - 4	On	LAN Port Active
	Flashing	LAN Data Transmitting
	Off	LAN Port Inactive / Malfunction

B. Back Panel



Button	Description
Easy-Setup Button (WPS™ compatible)	Press and hold until the WPS™ light begins to blink. This will initiate WPS™ search on your router in order to quickly create a secure network connection with other WPS™-compatible devices.
Reset	Press this button and hold for 7 seconds to restore factory default settings.

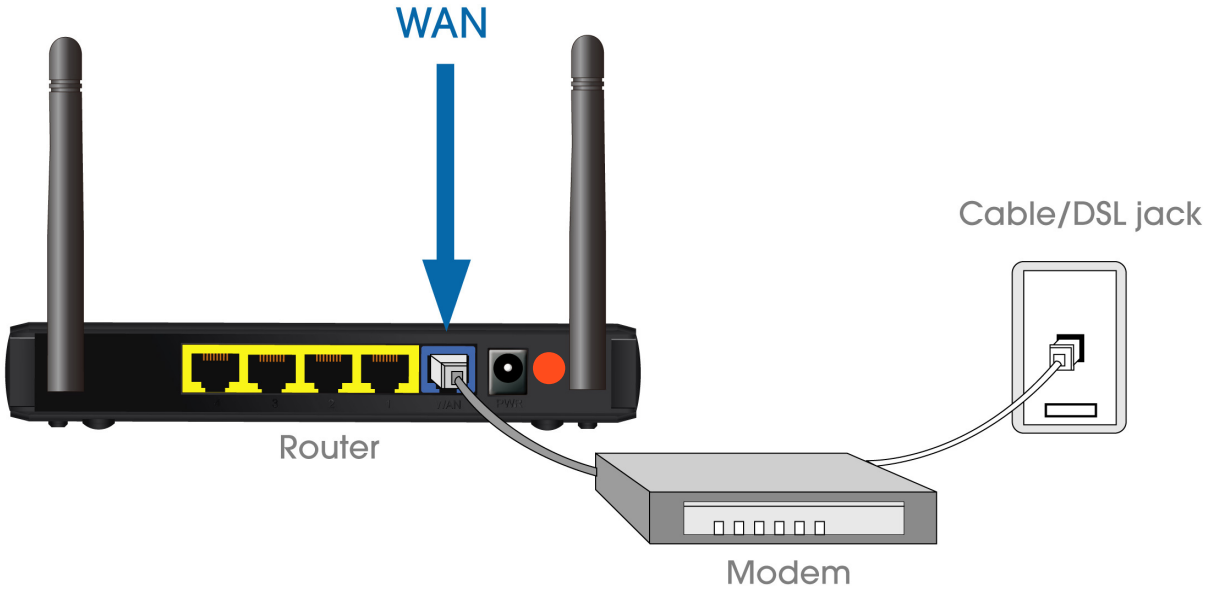
Port	Description
LAN 1 - 4	Connect Ethernet devices using the LAN ports.
WAN Port	Connect to your ISP modem for Internet Access.

Chapter 2 Configure the Router

2.1 Connect the Router to your network

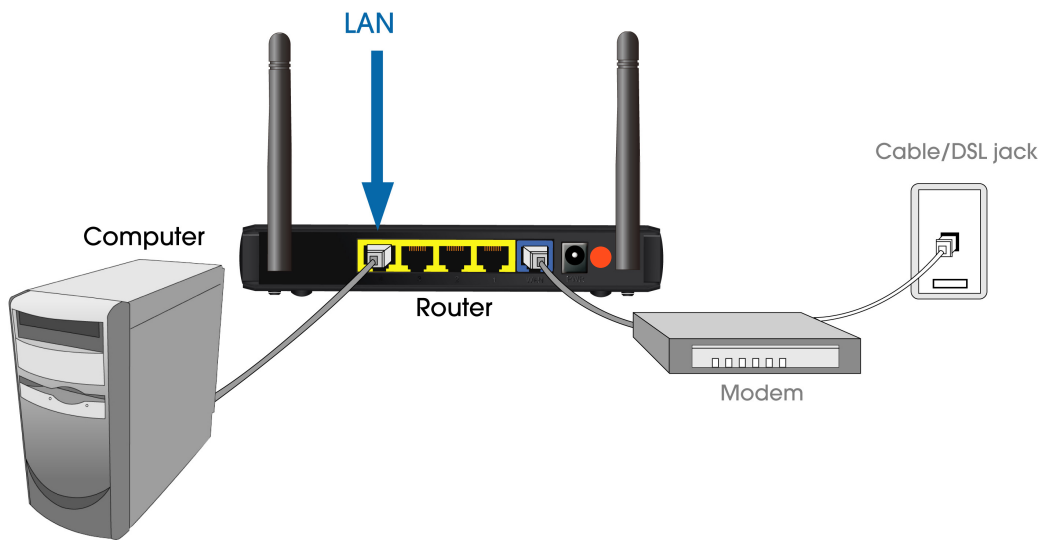
Note: Prior to connecting the router, be sure to power off your computer, DSL/Cable modem, and the router.

Step 1 Connect one end of a network cable to the **WAN** port of the router and connect the other end of the cable to the DSL/Cable modem.

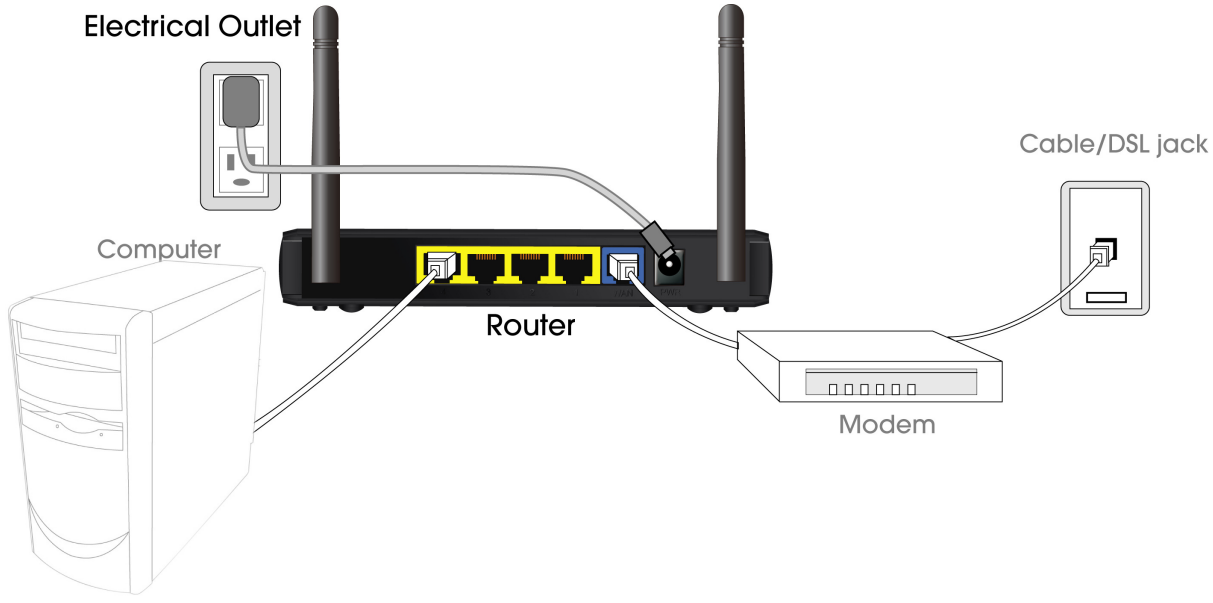


Step 2 Power on the modem.

Step 3 With another network cable, connect one end of the cable to your computer's **Ethernet** port and connect the other end to one of the **LAN** ports of the router, as shown in the following figure. (After setup finishes, you can remove the network cable between the computer and router if you want to use wireless connection.)



Step 4 Plug the power adapter to the router and connect it to an electrical outlet.



Step 5 Power on your computer.

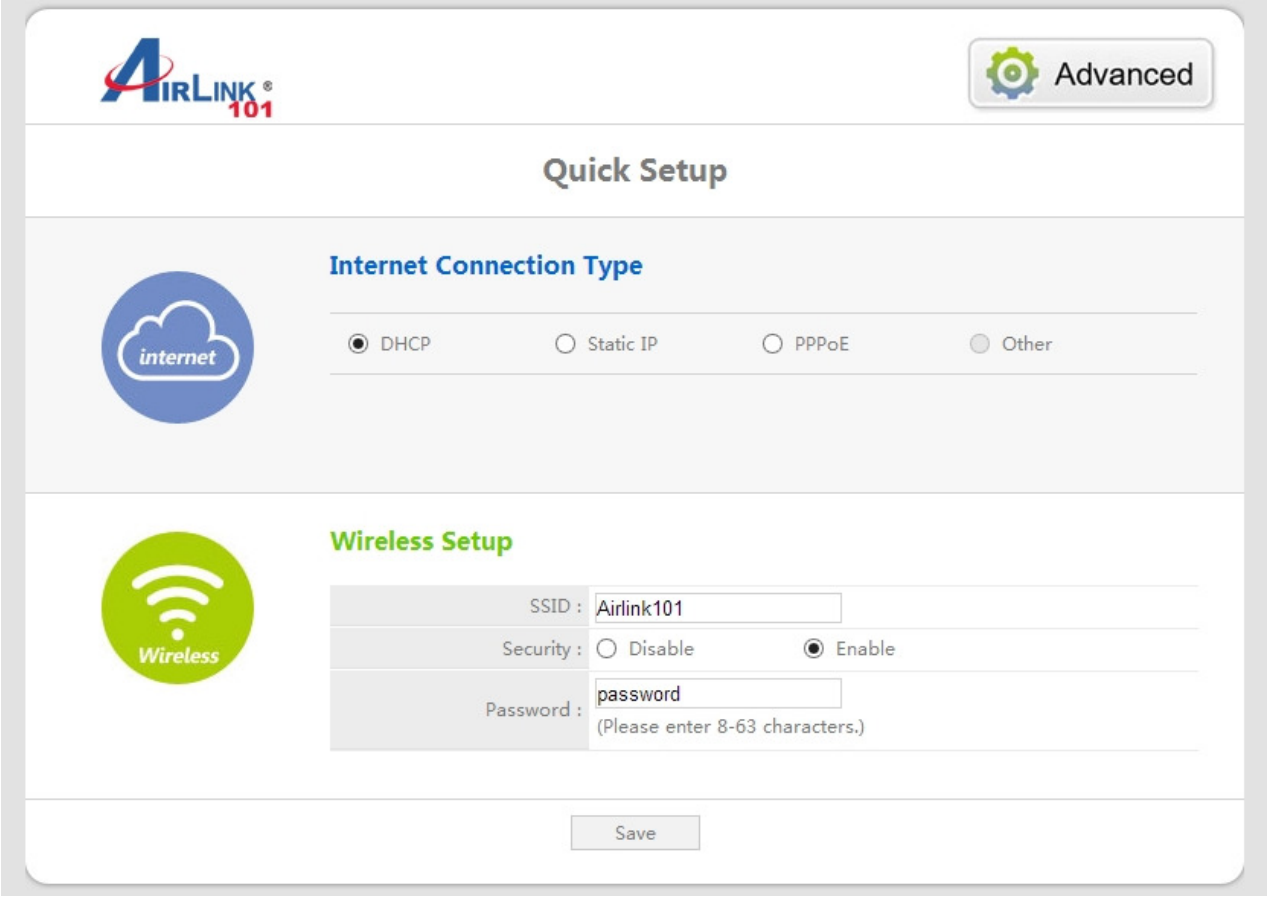
Step 6 Check LEDs of the router: make sure **Status, WAN**, **W.LAN**, and the **LAN** port that the computer is connected to are ON.

2.2 Configure the Router with Quick Setup

Setting up the router is made easy with the Quick Setup page. Here you can configure the most basic aspects of your router.

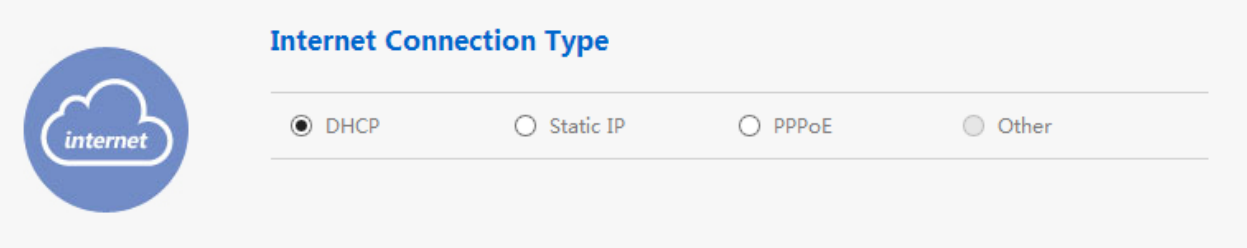
Step 1 Open the web browser (i.e. Internet Explorer or Mozilla Firefox) of the computer connected to the router and type **192.168.2.1** or the IP address you assigned to this router in the address bar and press **Enter**.

Step 2 You will be taken to the Quick Setup page.



2.2.1 Internet Connection Type

Select the WAN type associated with your ISP.

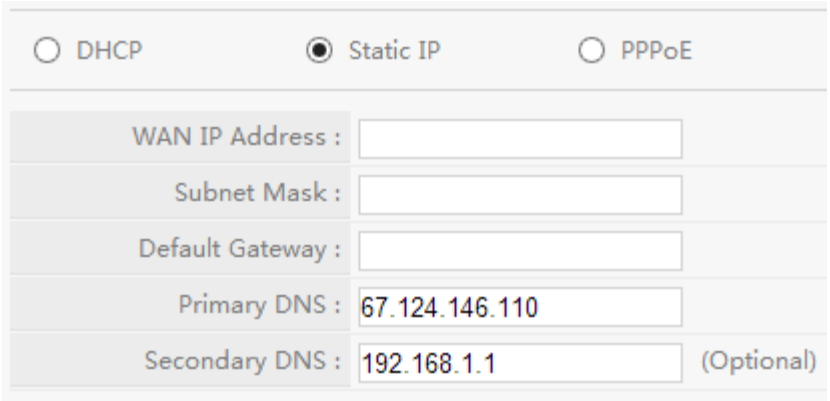


For Cable Users:

Please select **DHCP (Dynamic Host Configuration Protocol)**.

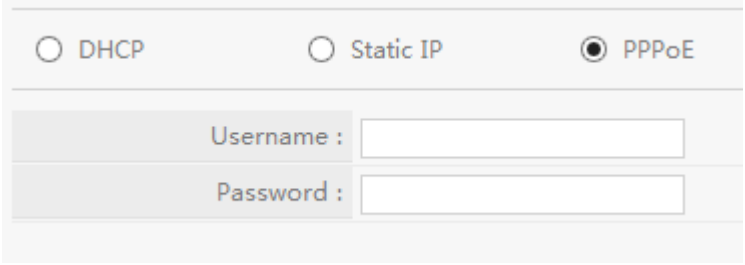
If your ISP has assigned you a Static IP:

Please select **Static IP** and enter the IP information provided by your ISP. Press **Save** to apply changes.



If your ISP uses PPP over Ethernet(PPPoE):

Enter the Account and Password provided by your ISP. Press **Save** to apply changes.

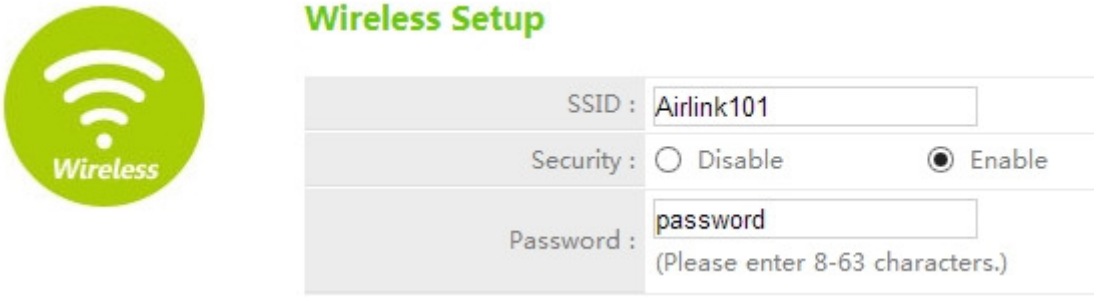


Note: *Depending on the ISP, you may need to include the domain name with your user name.*

Example: username@sbcglobal.net

2.2.2 Wireless Setup

Here you can instantly set up your Wireless Network.



SSID (Network Name):

Choose a name for your wireless network. Make sure to use a name that you can easily remember. The default SSID is set to Airlink101. Press **Save** to after you have chosen your own unique network name.

Security:

The default security uses WPA/WPA2-PSK encryption and is always enabled. If you'd like an open network, you disable the security and **Save** your changes. We strongly recommend leaving the Security enabled.

Password:

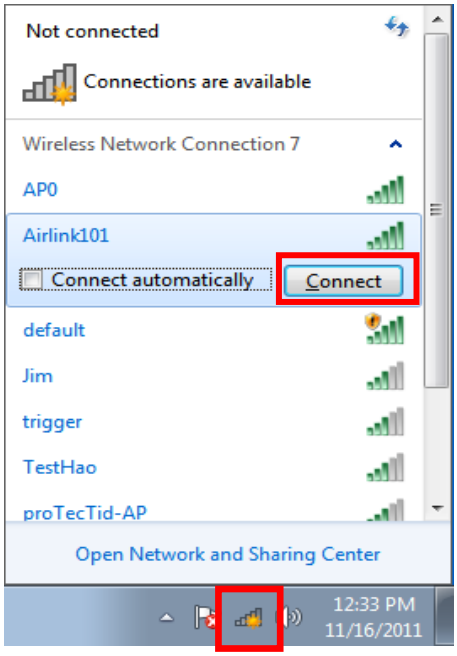
The factory default password is 'password.' Make sure to set your own password in order to protect your network. The password must be at least 8-characters long. We recommend using a mix of letters and numbers. Press **Save** to apply the new password.

Congratulations! Your router is ready for basic use. You can plug devices in directly through one of the LAN ports or connect wirelessly. Please go to section 2.3 if you require assistance with Connecting Wirelessly to the network.

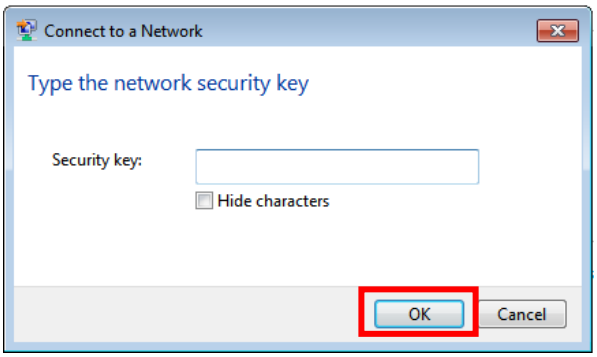
2.3 Connect to Router Wirelessly

In this section, you can find the instructions of how to connect to the router wirelessly with your **Windows 7** computer. You can also refer to the manual of your wireless adapter on how to connect to the router.

Step 1 Click on the wireless icon in the system tray on your desktop. A list of available network will pop up. Select the SSID that you set in the previous section then press **Connect**.



Step 2 Enter the password you configured for the network if you have enabled the wireless security, then click **OK**. Or, you can push the Easy Setup Button on the router and wireless adapter for wireless security synchronization (only works for devices with WPS™). The wireless connection should now be established.

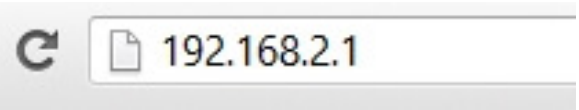


Chapter 3 Advanced Router Configuration

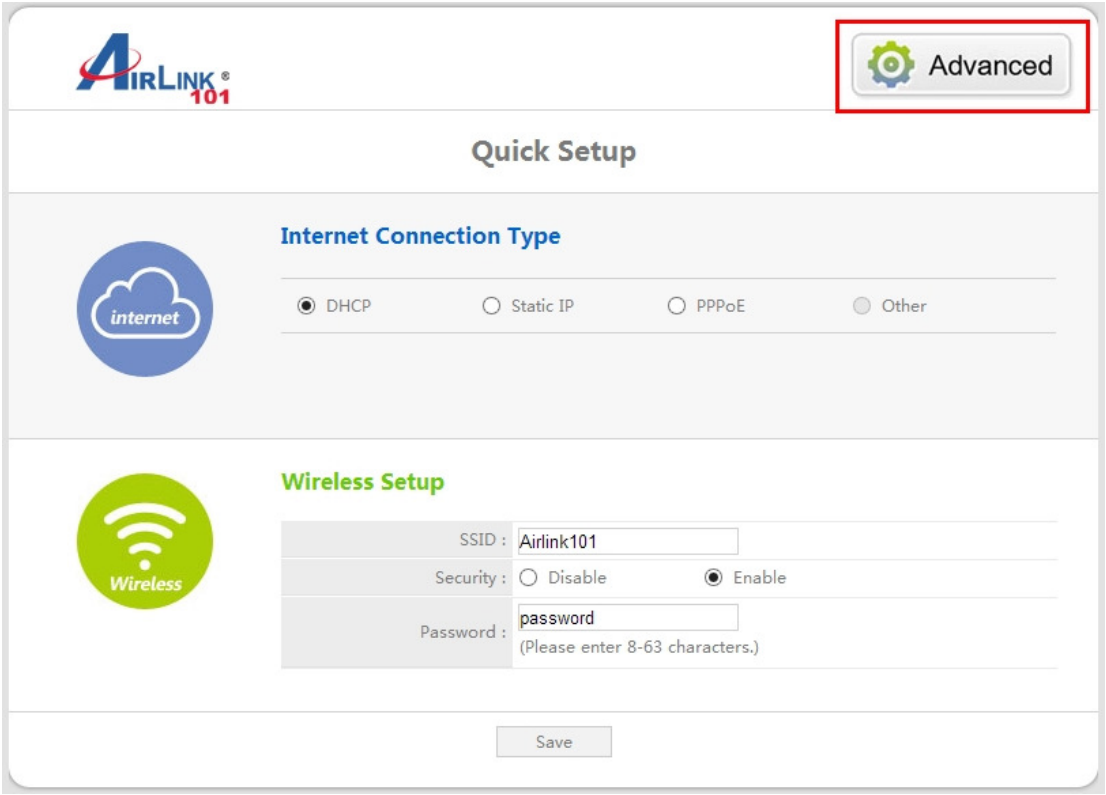
You can make advanced configurations on this router to meet your network's needs, such as: Virtual Server, Access Control, Network Security, etc. If you have already gone through the Setup Wizard, you do NOT need to configure anything here for you to start using the Internet.

In order to enter the Web Configuration Utility of your router, you need to first log into the router from your web browser. Please follow the steps below:

Step 1 From the computer that is connected to the router, open the web browser (i.e. Internet Explorer or Mozilla Firefox) and type **192.168.2.1** or the IP address you assigned to this router in the address bar and press **Enter**.

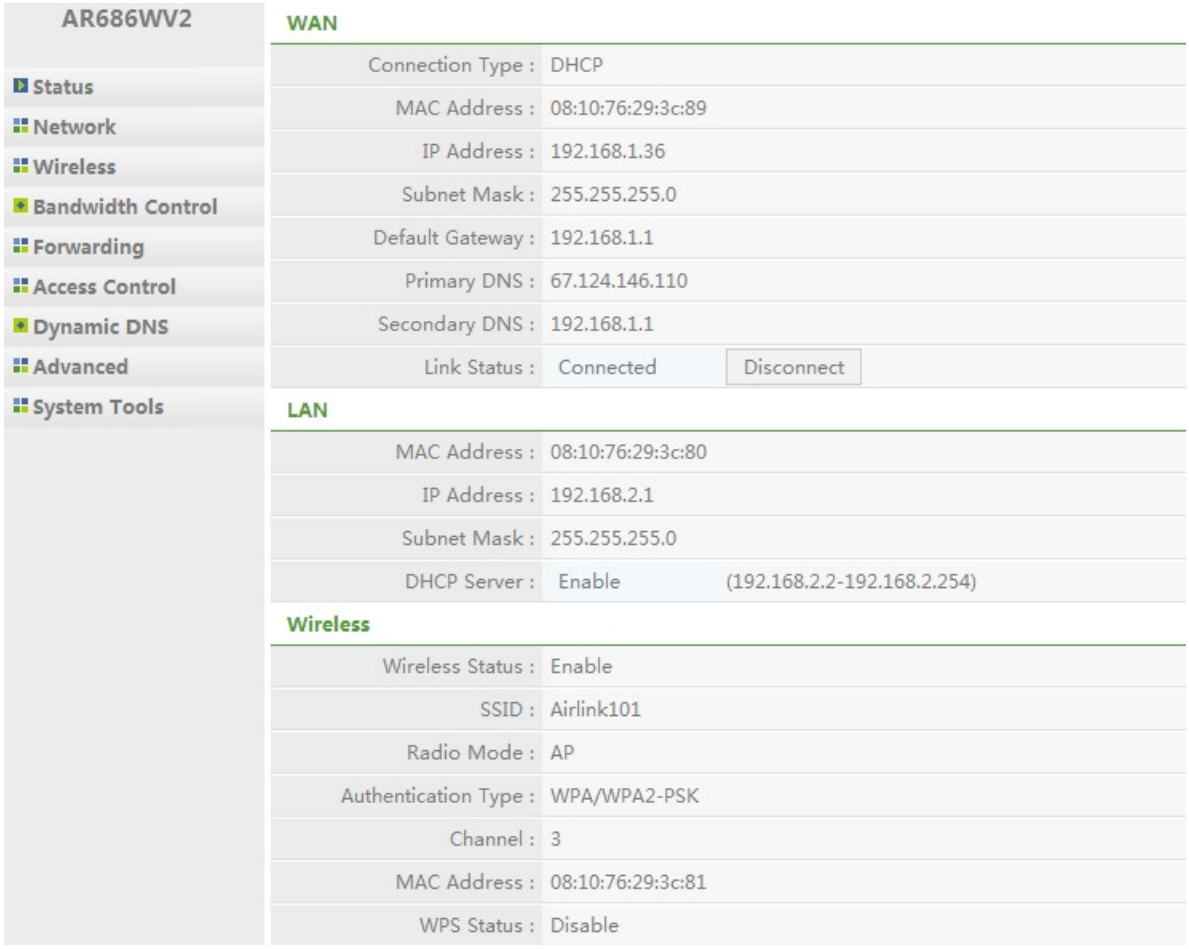


Step 2 Click on the **Advanced Menu** icon in the upper right-hand corner.



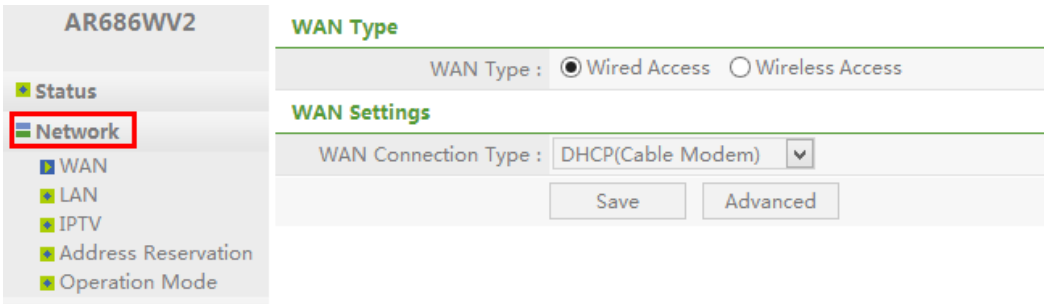
3.1 Status

The status page shows the current router configurations. You can find detailed information about your wired and wireless network here as well as the WAN connection.

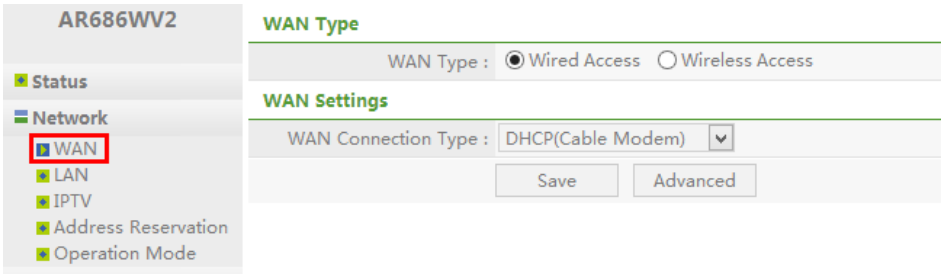


3.2 Network

Here you can configure the Networking properties of the router.



3.2.1 WAN



3.2.1.1 WAN Type – Wired Access

Select **Wired Access** if you are connecting to your Modem using an Ethernet cable.

Under **WAN Settings** select the WAN Connection Type used by your ISP.

A. Dynamic IP Address: Click on Dynamic IP if you are connecting to Internet through a cable modem.
B. Static IP Address: Click on Static IP Address if your ISP (Internet Service Provider) has provided you a set of IP addresses for your Internet connection.
C. PPP over Ethernet (PPPoE): Click on PPP over Ethernet if you are connecting to Internet through a DSL modem.

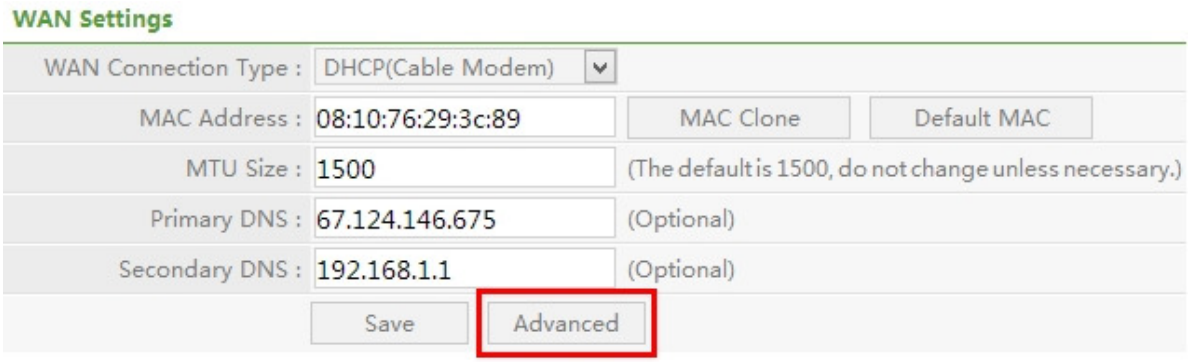
Note: For DSL users, your WAN type is either **Dynamic IP Address** or **PPP over Ethernet**. If you are not sure which one you are using, it is suggested to select PPP over Ethernet for your WAN type, and if you cannot connect to the Internet with this setting, try to select Dynamic IP instead. Otherwise, you can call your ISP to confirm which WAN type you are using.

D. Russia PPPoE: Use Russia PPPoE if using the router in Russia.
E. Unifi PPPoE: For use when attempting to connect to the Unifi network.
F. Maxis PPPoE: For use when attempting to connect to the Maxis Network.
G. PPTP/Russia PPTP: Some ISPs require the use of PPTP to connect to their services.
H. L2TP: Some ISPs require the use of L2TP to connect to their services

Please see the following instructions for settings for the 3 most common WAN types:

A) DHCP

DHCP WAN is the common among cable ISP's. There is no configuration necessary. Click on **Advanced** if you'd like to manually set the DHCP

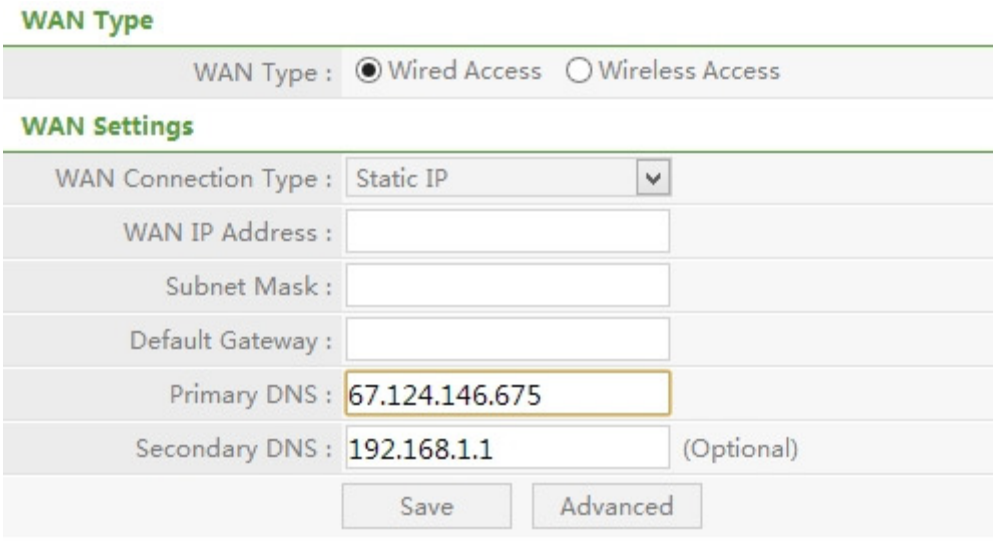


Parameter	Description
MAC Address	Please input MAC address of your computer here if your ISP only permits computer with certain MAC address to access Internet. If you are using the computer which used to connect to Internet via cable modem, you can simply press '**Clone MAC**' button to fill the WAN's MAC address field with the MAC address of your computer.
Primary DNS	This feature allows you to assign a Primary DNS Server. You can obtain this information from your ISP. If your ISP does not provide this information, you can leave it blank.
Secondary DNS	This feature allows you to assign a Secondary DNS Server. You can obtain this information from your ISP. If your ISP does not provide this information, you can leave it blank.

After you've finished all settings, click **Save** to save the setting. The change will take effect after the router automatically reboots.

B) Static IP Address

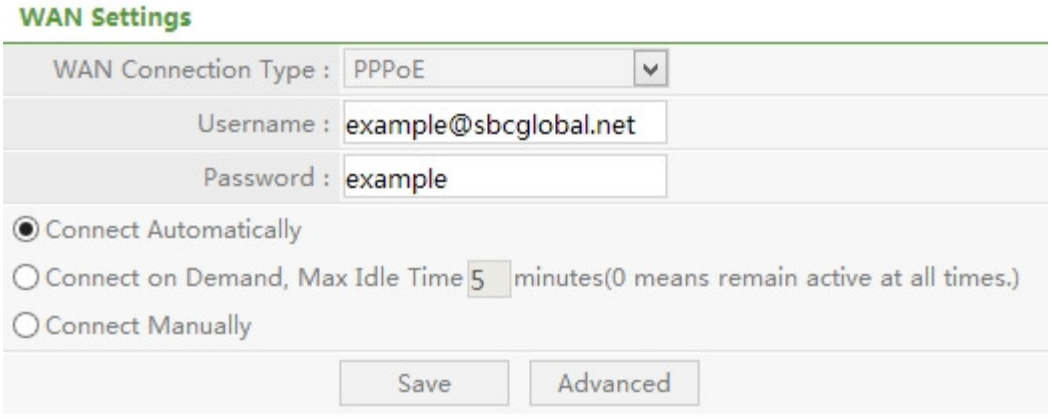
Enter the WAN IP address, WAN Subnet Mask, WAN Gateway, Primary DNS , and Secondary DNS addresses provided by your ISP.



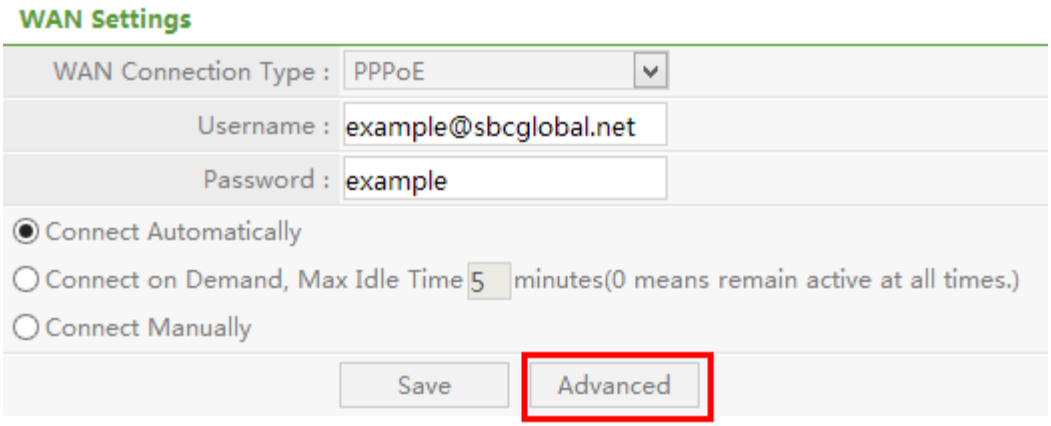
After you've finished all settings, click **Save** to save the setting. The change will take effect after the router automatically reboots.

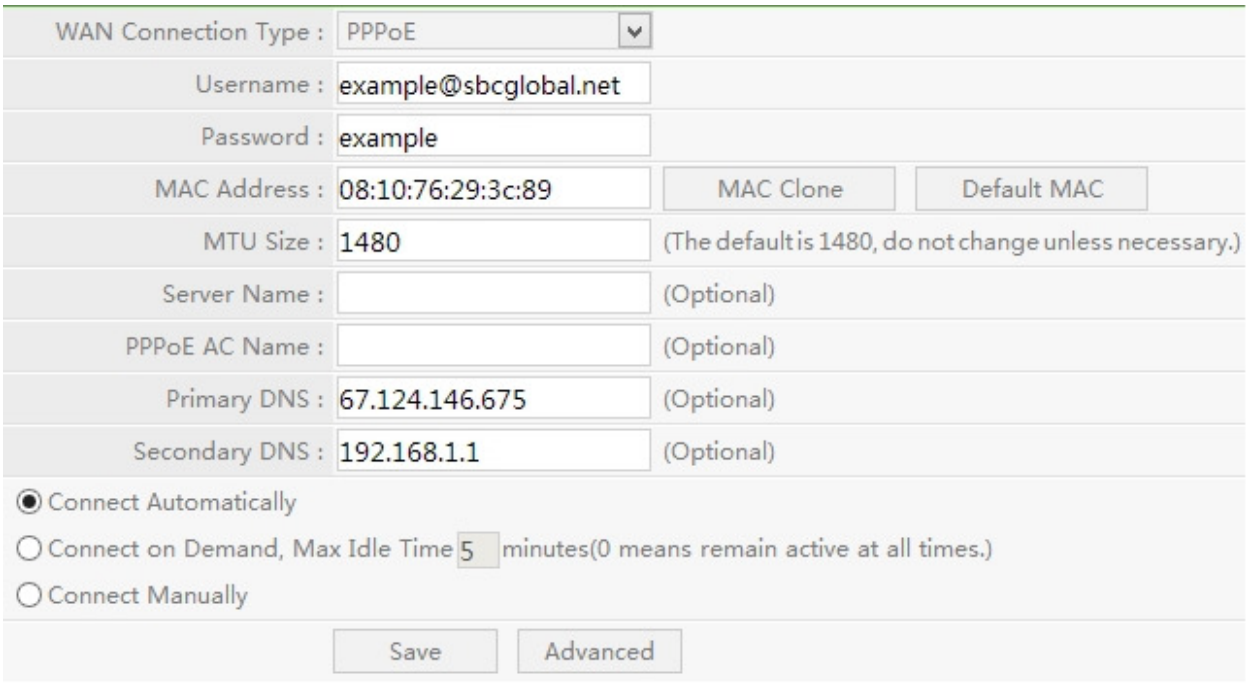
D) PPP Over Ethernet (PPPoE)

PPPoE is most common among DSL providers. Enter your **Username** and **Password** and press **Save.**



If you require further configurations, press **Advanced** for more options.





Parameter	Description
Username	Enter the User Name for your DSL account, you can obtain this information from your ISP.
Password	Enter the Password for your DSL account, you can obtain this information from your ISP.
MAC Address	Please input MAC address of your computer here if your ISP only permits computer with certain MAC address to access Internet. If you are using the computer which used to connect to Internet via cable modem, you can simply press '**Clone MAC**' button to fill the WAN's MAC address field with the MAC address of your computer.

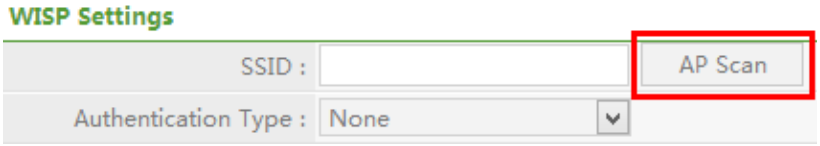
MTU (Maximum Transmission Unit)	The most common MTU value is 1480. You can configure it as your ISP suggested.
Server Name	Enter the DSL service company. This is optional.
PPPoE AC Name	Enter name of the Access Concentrator you'd like to connect to. Leave it blank for automatic configuration.
Primary DNS	This feature allows you to assign a Primary DNS Server. You can obtain this information from your ISP. If your ISP does not provide this information, you can leave it blank.
Secondary DNS	This feature allows you to assign a Secondary DNS Server. You can obtain this information from your ISP. If your ISP does not provide this information, you can leave it blank.
Connection Control	There are 3 modes for you to control the Internet connection: **Connect Automatically:** Router will keep the connection to the ISP after the connection is established. **Connect on Demand:** Router will connect to the ISP when its clients send outgoing packets. **Maximum Idle Time:** This feature allows you to set up the amount of time of inactivity before disconnecting your PPPoE session. Set it to zero or enable Auto-reconnect to disable this feature **Connect Manually:** Router will not connect to the ISP until user clicks the Connect button on the Status-page.

After you've finished all settings, click **Save** to save the setting. The change will take effect after the router automatically reboots.

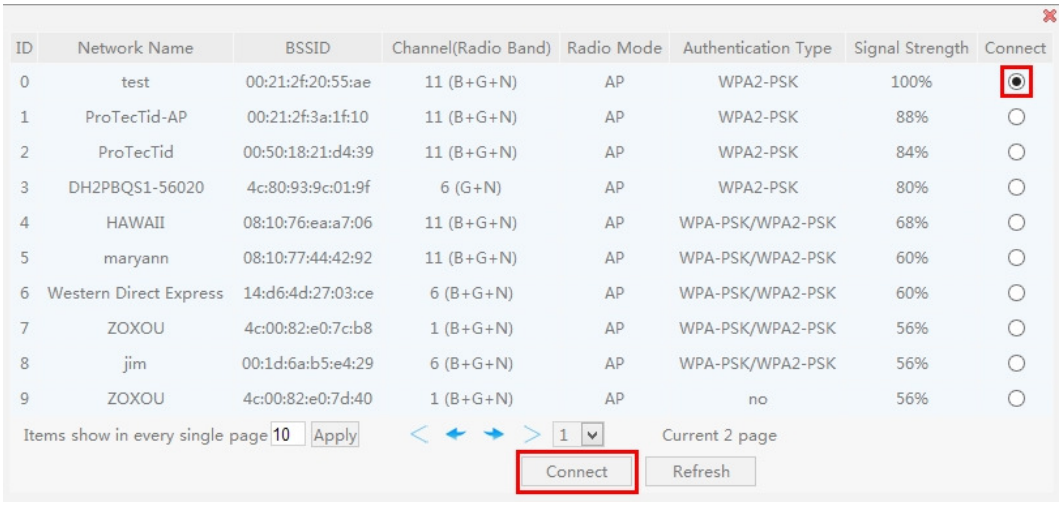
3.2.1.2 WAN Type – Wireless Access

Step 1 Select **Wireless Access** if you'd like to use an existing Wireless Network as your input connection rather than the traditional WAN Port.

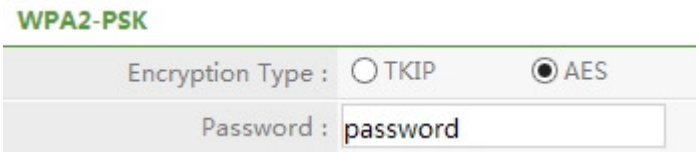
Step 2 Press **AP Scan** to view a list of available networks. Alternatively, you may manually enter the SSID of the network you'd like to connect to.



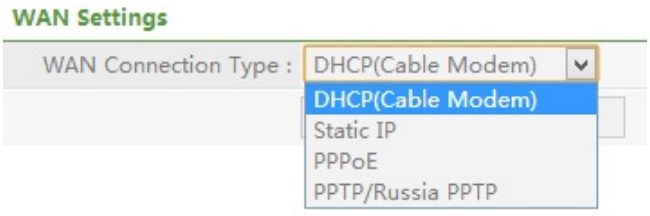
Step 2 Select the network you'd like to connect to by marking the circle on the right of the network. Press **Connect** when your network has been selected. If you do not see your network, press **Refresh** to rescan for available networks.


ID Network Name BSSID Channel(Radio Band) Radio Mode Authentication Type Signal Strength Connect
0 test 00:21:2f:20:55:ae 11 (B+G+N) AP WPA2-PSK 100%
1 ProTecTid-AP 00:21:2f:3a:1f:10 11 (B+G+N) AP WPA2-PSK 88%
2 ProTecTid 00:50:18:21:d4:39 11 (B+G+N) AP WPA2-PSK 84%
3 DH2PBQS1-56020 4c:80:93:9c:01:9f 6 (G+N) AP WPA2-PSK 80%
4 HAWAII 08:10:76:ea:a7:06 11 (B+G+N) AP WPA-PSK/WPA2-PSK 68%
5 maryann 08:10:77:44:42:92 11 (B+G+N) AP WPA-PSK/WPA2-PSK 60%
6 Western Direct Express 14:d6:4d:27:03:ce 6 (B+G+N) AP WPA-PSK/WPA2-PSK 60%
7 ZOXOU 4c:00:82:e0:7c:b8 1 (B+G+N) AP WPA-PSK/WPA2-PSK 56%
8 jim 00:1d:6a:b5:e4:29 6 (B+G+N) AP WPA-PSK/WPA2-PSK 56%
9 ZOXOU 4c:00:82:e0:7d:40 1 (B+G+N) AP no 56%
Items show in every single page 10 Apply
1 Current 2 page
Connect
Refresh

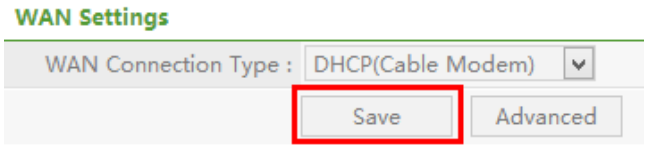
Step 3 If the network is protected by a password, enter the password associated with the Network. If you manually entered the SSID, you will need to select the **Authentication Type** and select the **Encryption Type** before entering the password.



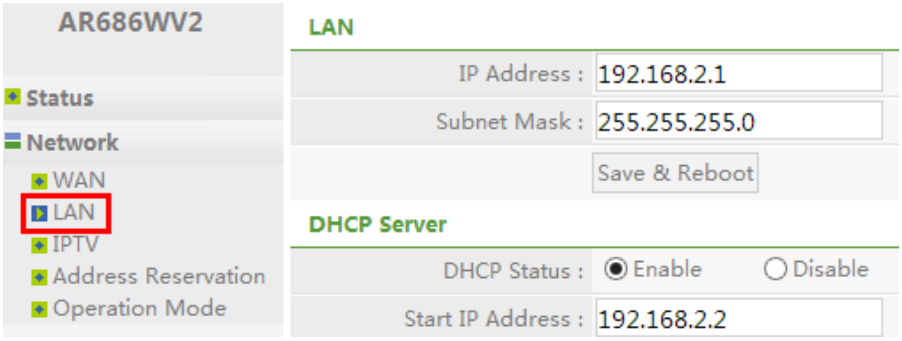
Step 4 Select the **WAN Connection Type** of the network you are connecting to. Enter the configurations for the connection type associated with the network you are connecting to. Please see **Section 3.2.1.1** for information on how to configure the individual connection types.



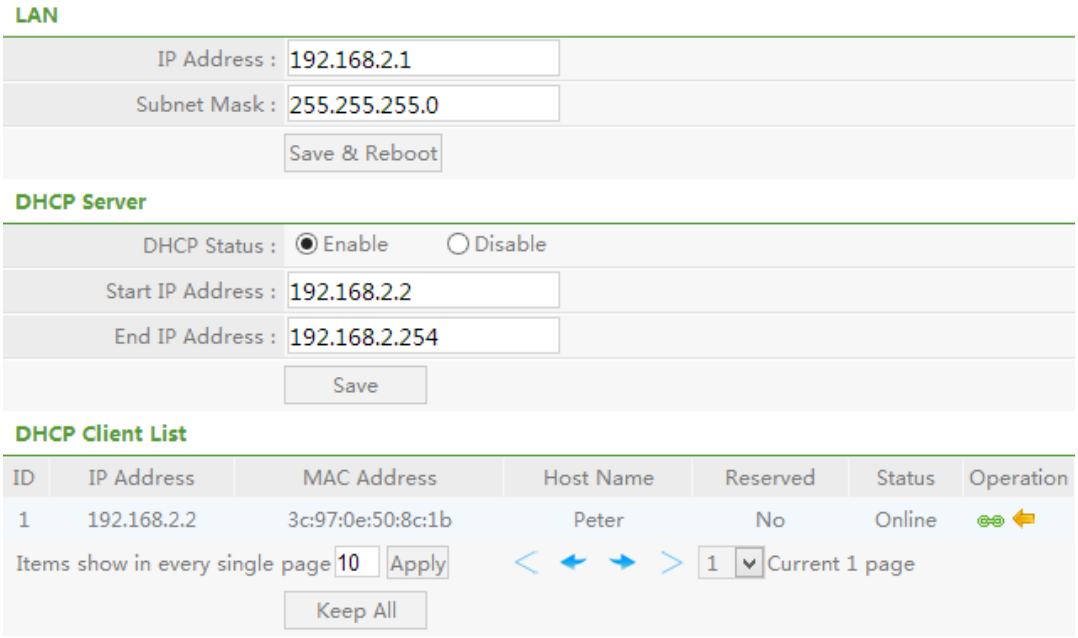
Step 5 After you've finished all settings, click **Save**. The change will take effect after the router automatically reboots. Please allow 2-5 minutes for the connection to establish.



3.2.2 LAN

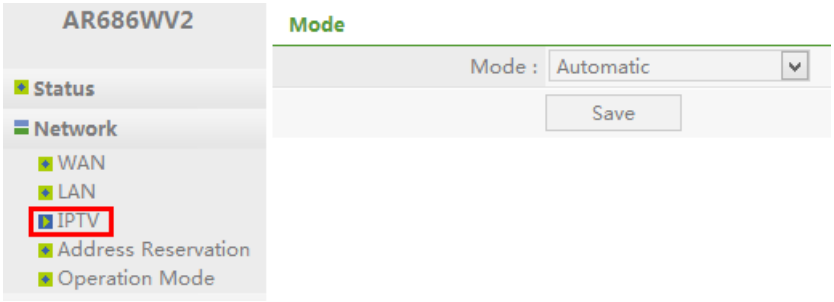


Enter the LAN configurations in order to adjust the settings of your Local Area Network.


LAN
IP Address : 192.168.2.1
Subnet Mask : 255.255.255.0
Save & Reboot
DHCP Server
DHCP Status : Enable Disable
Start IP Address : 192.168.2.2
End IP Address : 192.168.2.254
Save
DHCP Client List
ID IP Address MAC Address Host Name Reserved Status Operation
1 192.168.2.2 3c:97:0e:50:8c:1b Peter No Online
Items show in every single page 10 Apply
1 Current 1 page
Keep All

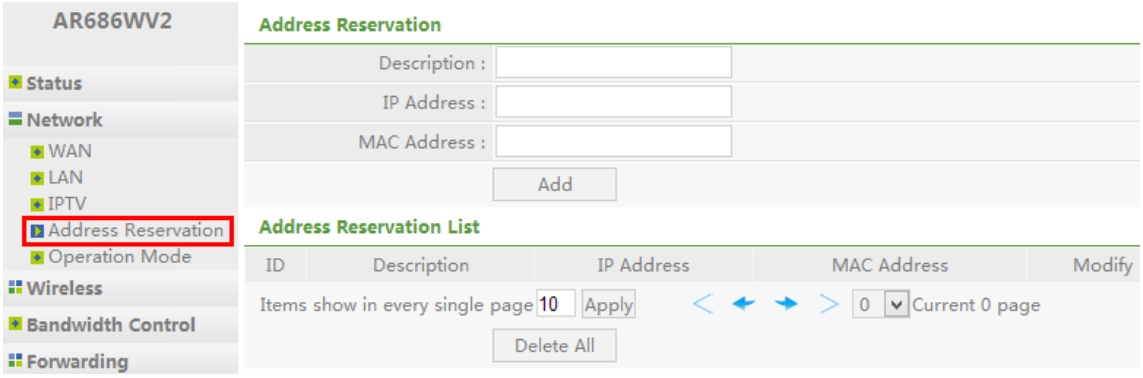
Parameter	Description
IP Address	The local IP address of this router. You can change it if necessary.
Subnet Mask	Enter the Password for your DSL account, you can obtain this information from your ISP.
DHCP Status	Select Disable or Enable the DHCP server.
Start IP Address/End IP Address	Whenever there is a request from a network client, the DHCP server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify a range by entering the starting / ending address of the IP address pool.
Client List	Active clients on the DHCP server will be listed here.

3.2.3 IPTV



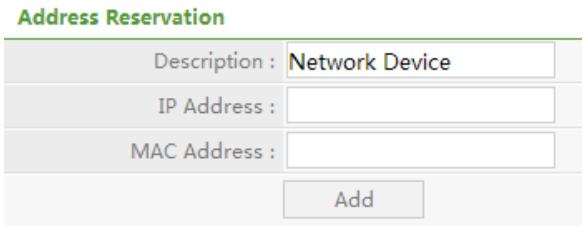
If your television service uses IPTV, you can configure the settings here. Please consult your TV service providers for more details on how to configure the IPTV settings.

3.2.4 Address Reservation

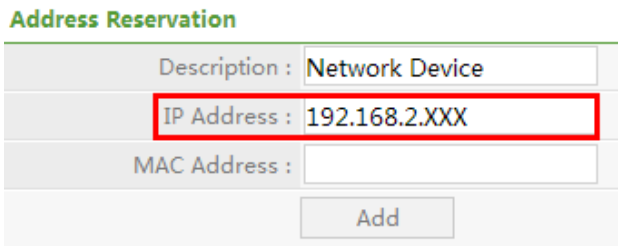


When using a DHCP server you may find situations where you want to reserve an IP address for a certain network device.

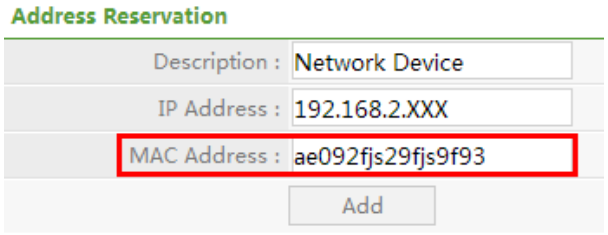
Step 1 Enter a brief description of the Network Device.



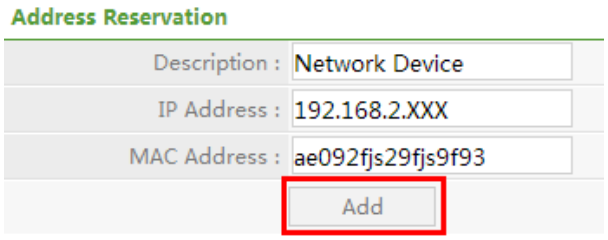
Step 2 Enter the **IP Address** you would like to reserve. Make sure the IP address is configured statically to the Network Device you are using.



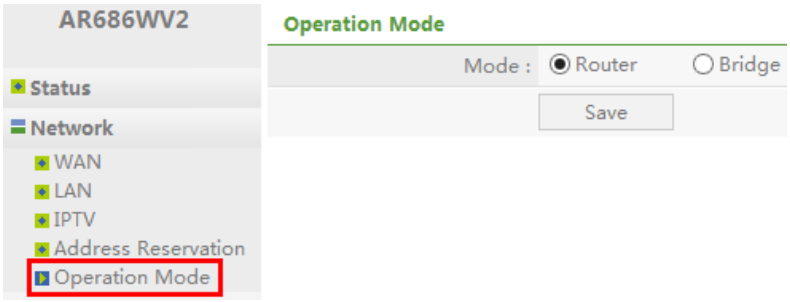
Step 3 Enter the **MAC Address** of the network device.



Step 4 Click **Add** to finish reserving the IP Address. The client will now appear in the **Address Reservation List**.



3.2.5 Operation Mode



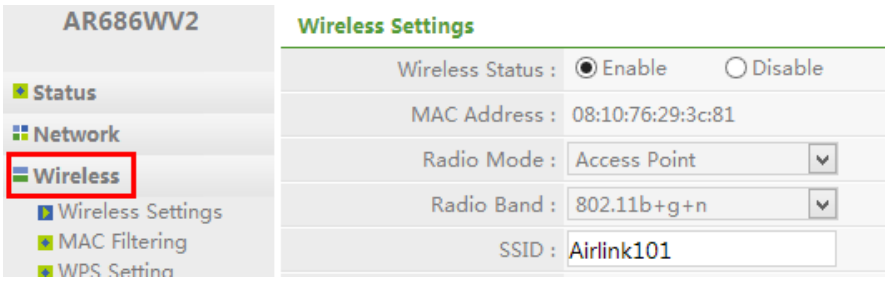
Select which mode you would like to run in:

Router Mode: Router mode will allow the AR686WV2 to act as a normal router with its own DHCP server and IP Address.
Bridge Mode: Turn the AR686WV2 into a bridge by selecting **Bridge Mode** and pressing **Save.**

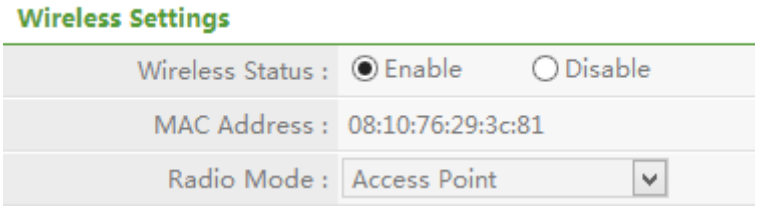
NOTE: If would like to return the AR686WV2 from Bridge Mode to Router Mode, you will need to perform a factory reset by holding the reset button for 10 seconds with the power attached.

3.3 Wireless

Here you can configure the Networking properties of the router.



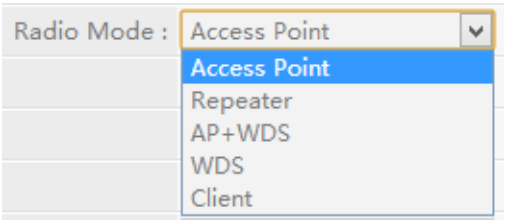
3.3.1 Wireless Settings



Parameters	Description
Wireless Status	Enable or disable wireless function.
MAC Address	Displays the MAC Address of the Wireless portion of the AR686WV2.
Radio Mode	Select the function of the wireless radio. See **Section 3.3.1.1** for more information on the different Radio Modes.

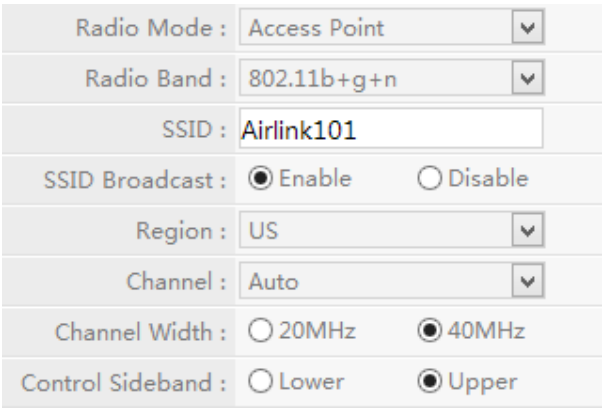
3.3.1.1 Radio Modes

The wireless radio on the AR686WV2 is capable of different functions. Select the mode based on the function you need.



A. Access Point

This is the standard wireless mode. Wireless devices will be able to connect to the wireless network when the AR686WV2 is in Access Point mode.


Radio Mode : Access Point
Radio Band : 802.11b+g+n
SSID : Airlink101
SSID Broadcast : Enable Disable
Region : US
Channel : Auto
Channel Width : 20MHz 40MHz
Control Sideband : Lower Upper

Parameters	Description
Wireless Mode	Please select the wireless mode from one of the following options: 11b/g/n mixed: 2.4GHz band, allows 802.11b, 802.11g, and 802.11n wireless network clients to connect to this router (maximum transfer rate 11Mbps for 802.11b clients, maximum 54Mbps for 802.11g clients, and maximum 300Mbps for 802.11n clients*). 11b Only: 2.4GHz band, only allows 802.11b wireless network clients to connect to this router (maximum transfer rate 11Mbps*). 11g Only: 2.4GHz band, only allows 802.11g wireless network clients to connect to this router (maximum transfer rate 54Mbps*). 11n Only: 2.4GHz band, only allows 802.11n wireless network clients to connect to this router (maximum transfer rate 300Mbps*).
SSID (Network Name)	This is the name of your wireless network. You can type any alphanumeric characters here, maximum 32 characters. SSID is used to identify your own wireless router from others when there are multiple wireless routers in the same area. We recommend you change it to something you can easily remember and identify.

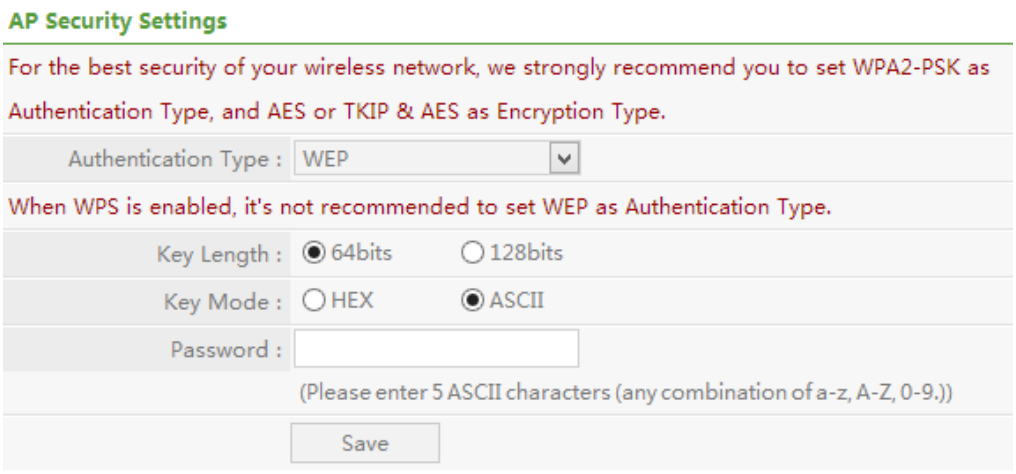
SSID Broadcast	Select Enable to broadcast the SSID so that your wireless client can detect it on the available wireless network list.
Region	Select the region you live in.
Channel	Please select a channel from the drop-down list of 'Channel Number' for broadcasting. You can let the router automatically choose a channel or manually assign one yourself.
Channel Width	Choose between 20MHz or 40MHz(default).
Control Sideband	Choose whether the extension channel is offset above or below the wireless channel.

AP Security Settings

We recommend setting a security measure on your wireless network. Please review the different Authentication Types to find the best option for securing your network.

WEP

Note: IEEE802.11n only supports WPA2-PSK or WPA-PSK AES encryption. If you use WEP as your encryption, wireless data rate will drop to 54Mbps (802.11g standard).


AP Security Settings
For the best security of your wireless network, we strongly recommend you to set WPA2-PSK as Authentication Type, and AES or TKIP & AES as Encryption Type.
Authentication Type :
WEP
When WPS is enabled, it's not recommended to set WEP as Authentication Type.
Key Length :
64bits
128bits
Key Mode :
HEX
ASCII
Password :
(Please enter 5 ASCII characters (any combination of a-z, A-Z, 0-9.))
Save

Key Length: Select 64 bits or 128 bits key length.

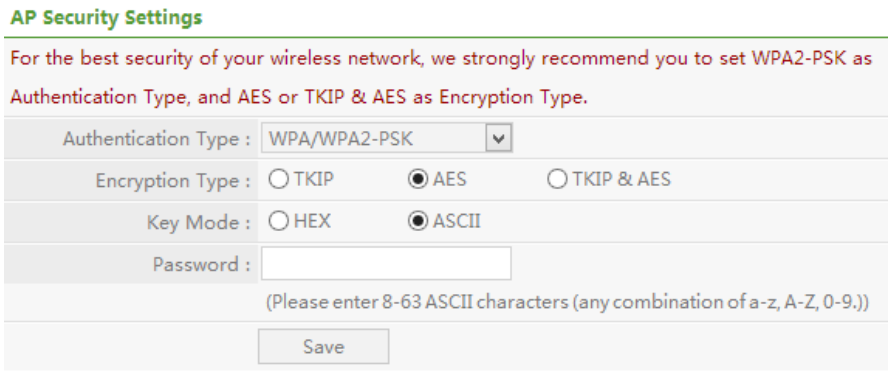
Key Mode: Select HEX or ASCII. You can select ASCII (alphanumeric format) or Hexadecimal (in the “a~f” and “0~9” range) for the key format.

Password: Set a WEP Key you wish to use and enter the key value.

- If you select HEX and 64 bits, enter a 10-digit Hex key, for example, “12345abcde”.
- If you select ASCII and 64 bits, enter a 5-digit ASCII key, for example, “xyz01”.
- If you select HEX and 128 bits, enter a 26-digit Hex key, for example, “12345abcde67890bcdef123456”.
- If you select ASCII and 128 bits, enter a 13-digit ASCII key, for example, “wepkeyexample”.

WPA-PSK / WPA2-PSK

Wi-Fi Protected Access (WPA) is an advanced security standard. You can use a pre-shared key (PSK) to authenticate wireless stations and encrypt data during communication, so the encryption key is not easy to be broken by hackers. This can greatly improve your wireless security.WPA2-PSK AES is the most secured setting for general users.


AP Security Settings
For the best security of your wireless network, we strongly recommend you to set WPA2-PSK as Authentication Type, and AES or TKIP & AES as Encryption Type.
Authentication Type :
WPA/WPA2-PSK
Encryption Type :
TKIP
AES
TKIP & AES
Key Mode :
HEX
ASCII
Password :
(Please enter 8-63 ASCII characters (any combination of a-z, A-Z, 0-9.))
Save

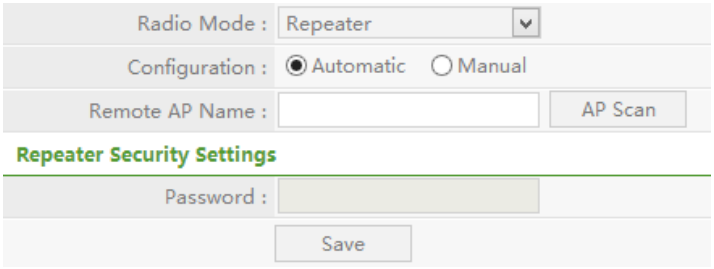
Encryption Type: Select either AES or TKIP. It is suggested to select AES if all your wireless devices support this encryption mode.

Note: IEEE802.11n only supports AES encryption. If you use TKIP as your encryption, wireless data rate will drop to 54Mbps (802.11g standard).

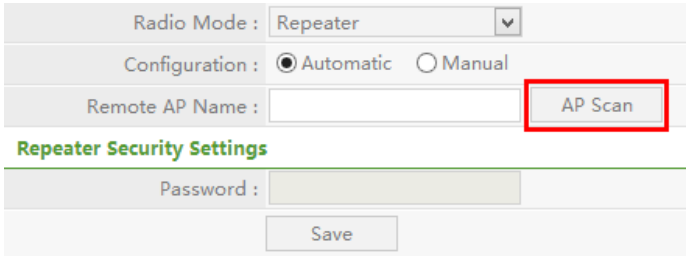
Password: Enter 8~63 characters as the security key of your wireless network.

B. Repeater

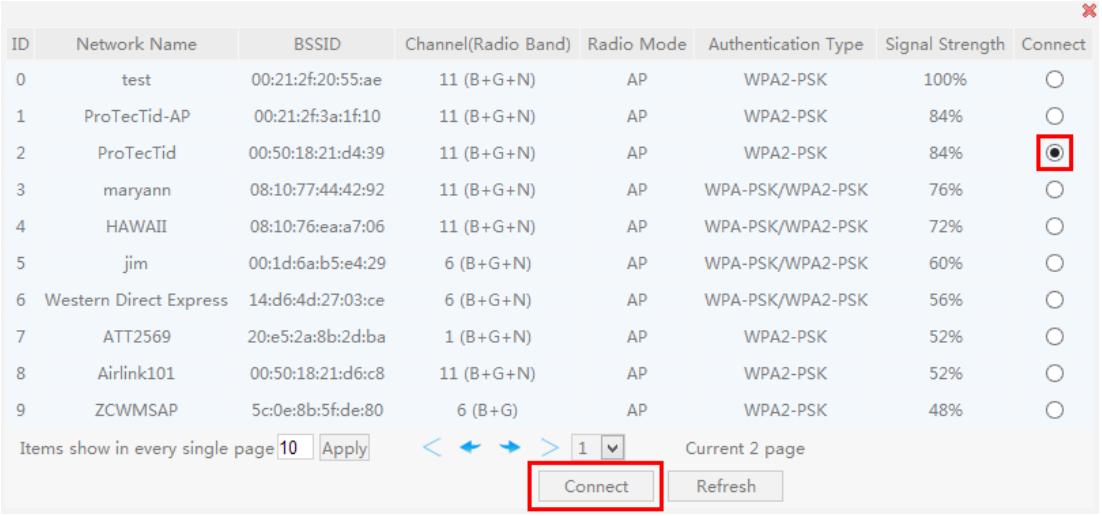
Repeater mode takes the wireless signal from another router and broadcasts it as its own. You can extend the range of your existing router by using Repeater mode.



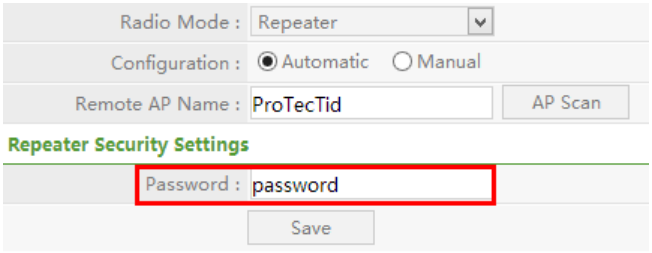
Step 1 Scan for existing wireless networks by pressing **AP Scan.**



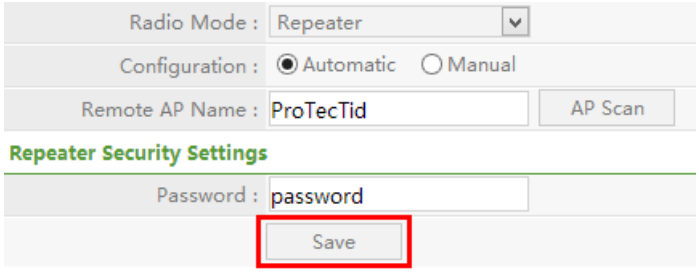
Step 2 Select the network you'd like to repeat and then press **Connect.**


ID Network Name BSSID Channel(Radio Band) Radio Mode Authentication Type Signal Strength Connect
0 test 00:21:2f:20:55:ae 11 (B+G+N) AP WPA2-PSK 100%
1 ProTecTid-AP 00:21:2f:3a:1f:10 11 (B+G+N) AP WPA2-PSK 84%
2 ProTecTid 00:50:18:21:d4:39 11 (B+G+N) AP WPA2-PSK 84%
3 maryann 08:10:77:44:42:92 11 (B+G+N) AP WPA-PSK/WPA2-PSK 76%
4 HAWAII 08:10:76:ea:a7:06 11 (B+G+N) AP WPA-PSK/WPA2-PSK 72%
5 jim 00:1d:6a:b5:e4:29 6 (B+G+N) AP WPA-PSK/WPA2-PSK 60%
6 Western Direct Express 14:d6:4d:27:03:ce 6 (B+G+N) AP WPA-PSK/WPA2-PSK 56%
7 ATT2569 20:e5:2a:8b:2d:ba 1 (B+G+N) AP WPA2-PSK 52%
8 Airlink101 00:50:18:21:d6:c8 11 (B+G+N) AP WPA2-PSK 52%
9 ZCWMSAP 5c:0e:8b:5f:de:80 6 (B+G) AP WPA2-PSK 48%
Items show in every single page 10 Apply
1 Current 2 page
Connect Refresh

Step 3 Enter the password of the network you are trying to replicate.



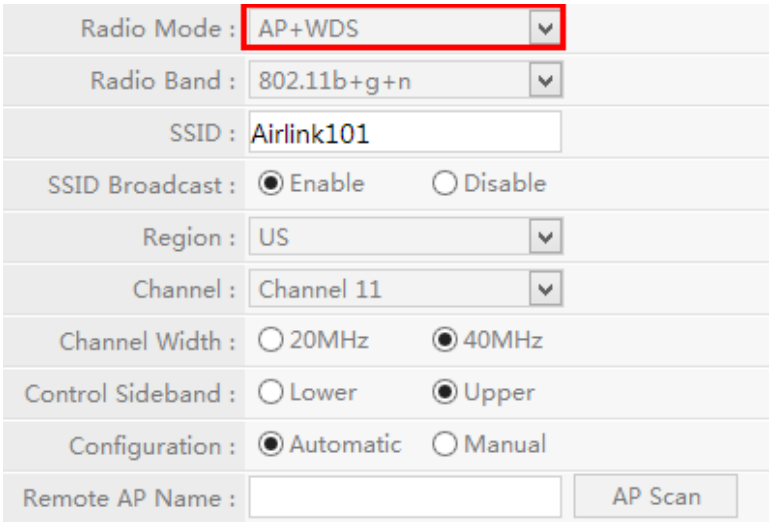
Step 4 Press **Save** and wait for 2-5 minutes to allow the AR686WV2 to pick up the signal from the router whose network you are repeating.



C. AP+WDS

This function is very similar to Repeater mode in that the router will take its input signal from a pre-existing network. The difference is that when using AP+WDS, the AR686WV2 is able to broadcast its own unique SSID and network. Repeater mode creates an extension of your base router, while AP+WDS creates a separate network using the signal of your base router. Both achieve a similar function, but AP+WDS allows you to distinguish between the base router and the “repeating” router.

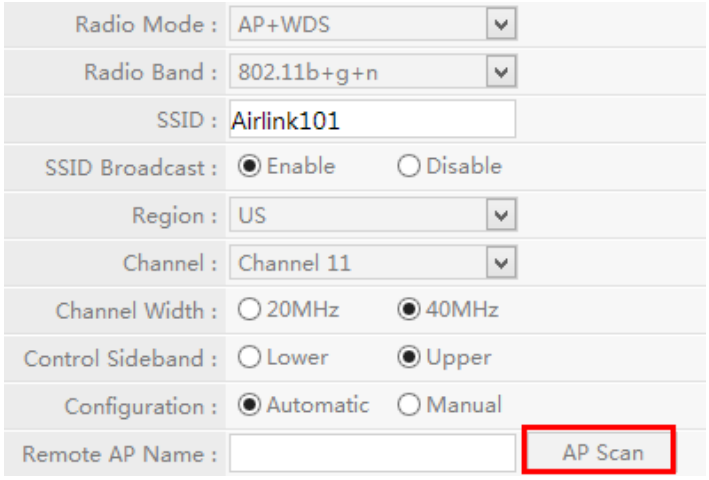
Step 1 Select **AP+WDS** as the Radio Mode.


Radio Mode : AP+WDS
Radio Band : 802.11b+g+n
SSID : Airlink101
SSID Broadcast : Enable Disable
Region : US
Channel : Channel 11
Channel Width : 20MHz 40MHz
Control Sideband : Lower Upper
Configuration : Automatic Manual
Remote AP Name : AP Scan

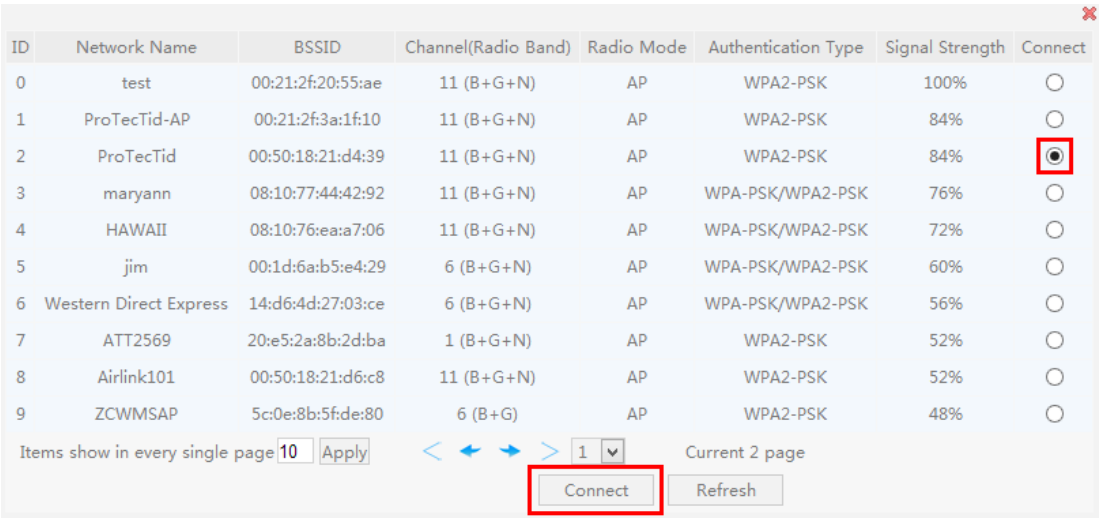
Step 2 Set the **SSID** for the network. This will be the name of your network, so make sure it is easy to remember and recognizable. As usual, the default will be Airlink101.

Radio Mode : AP+WDS
Radio Band : 802.11b+g+n
SSID : Airlink101
SSID Broadcast : Enable Disable
Region : US
Channel : Channel 11
Channel Width : 20MHz 40MHz
Control Sideband : Lower Upper
Configuration : Automatic Manual
Remote AP Name : AP Scan

Step 3 Press **AP Scan** to bring up a list of available networks.

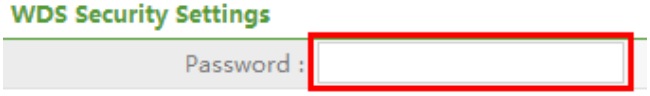


Step 4 Just like in Repeater mode and W-ISP, the AR686WV2 will source its Internet connection from this base network. Select the network you'd like to use and press **Connect** to continue.

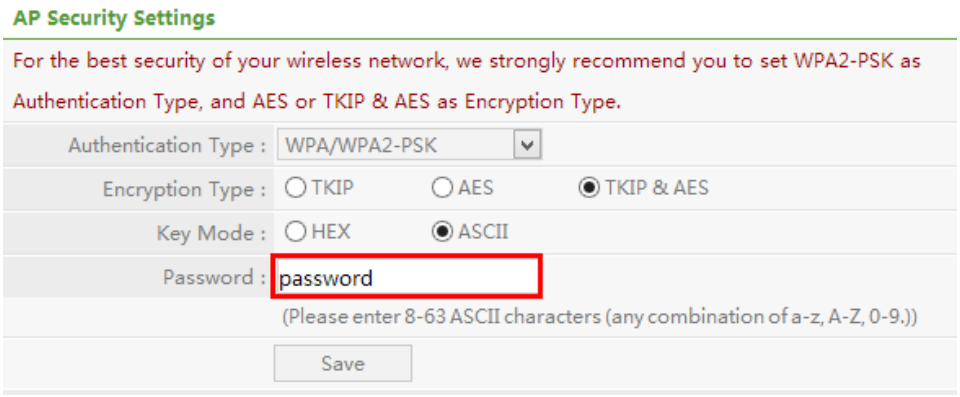


ID	Network Name	BSSID	Channel(Radio Band)	Radio Mode	Authentication Type	Signal Strength	Connect
0	test	00:21:2f:20:55:ae	11 (B+G+N)	AP	WPA2-PSK	100%	
1	ProTecTid-AP	00:21:2f:3a:1f:10	11 (B+G+N)	AP	WPA2-PSK	84%	
2	ProTecTid	00:50:18:21:d4:39	11 (B+G+N)	AP	WPA2-PSK	84%	◉
3	maryann	08:10:77:44:42:92	11 (B+G+N)	AP	WPA-PSK/WPA2-PSK	76%	
4	HAWAII	08:10:76:ea:a7:06	11 (B+G+N)	AP	WPA-PSK/WPA2-PSK	72%	
5	jim	00:1d:6a:b5:e4:29	6 (B+G+N)	AP	WPA-PSK/WPA2-PSK	60%	
6	Western Direct Express	14:d6:4d:27:03:ce	6 (B+G+N)	AP	WPA-PSK/WPA2-PSK	56%	
7	ATT2569	20:e5:2a:8b:2d:ba	1 (B+G+N)	AP	WPA2-PSK	52%	
8	Airlink101	00:50:18:21:d6:c8	11 (B+G+N)	AP	WPA2-PSK	52%	
9	ZCWMSAP	5c:0e:8b:5f:de:80	6 (B+G)	AP	WPA2-PSK	48%	

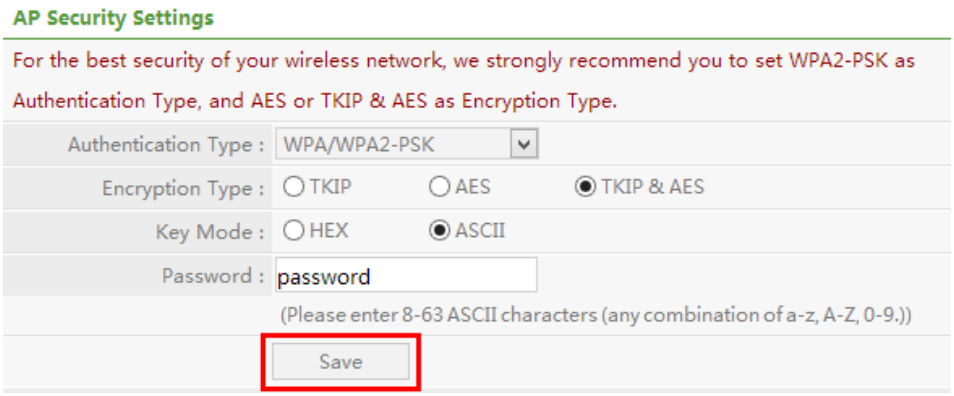
Step 5 Enter the **Password** of the network you are connecting to.



Step 6 Setup the security settings for your new network. Please see **AP Security Settings** in the **Access Point** section for more details. The factory default is 'password'. We recommend changing that to something that only you will know.


AP Security Settings
For the best security of your wireless network, we strongly recommend you to set WPA2-PSK as Authentication Type, and AES or TKIP & AES as Encryption Type.
Authentication Type :
WPA/WPA2-PSK
Encryption Type :
TKIP
AES
TKIP & AES
Key Mode :
HEX
ASCII
Password :
password
(Please enter 8-63 ASCII characters (any combination of a-z, A-Z, 0-9.))
Save

Step 7 Press **Save** to apply the changes and initiate the AP+WDS function. Please allow 2-5 minutes before attempting to access the new network.


AP Security Settings
For the best security of your wireless network, we strongly recommend you to set WPA2-PSK as Authentication Type, and AES or TKIP & AES as Encryption Type.
Authentication Type :
WPA/WPA2-PSK
Encryption Type :
TKIP
AES
TKIP & AES
Key Mode :
HEX
ASCII
Password :
password
(Please enter 8-63 ASCII characters (any combination of a-z, A-Z, 0-9.))
Save

C. WDS

WDS mode is nearly identical is form and function to Repeater mode. Both achieve the same goal, but WDS mode will only connect to another WDS-compatible device. The connection between two WDS devices will be marginally stronger than in Repeater mode.

Please see section 3.3.1.1 B for instructions on how to setup WDS mode.

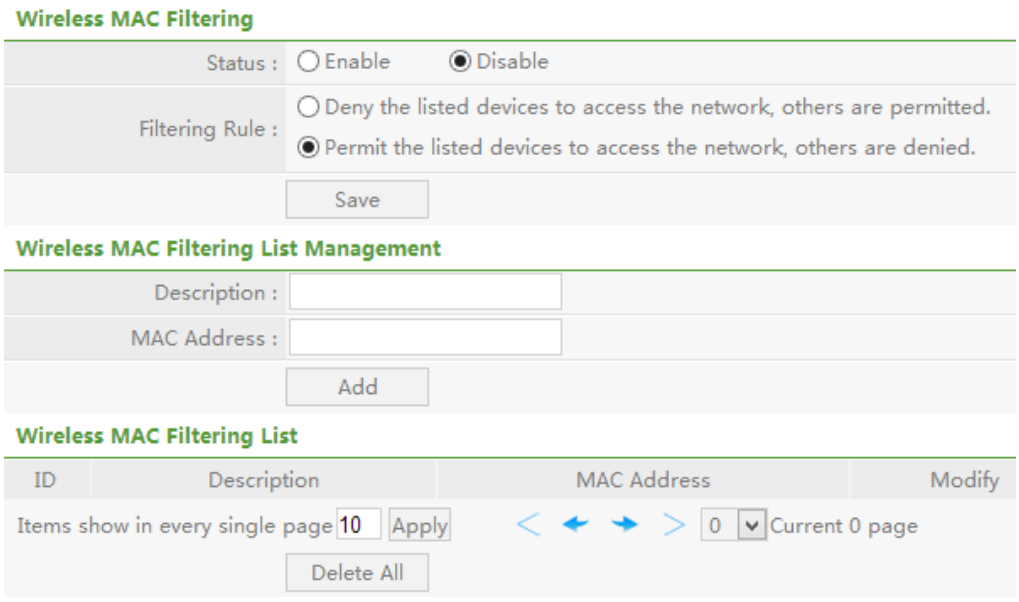
D. Client

Client mode takes the signal from an existing network and routes it to a single device on the LAN. This application is good if you have a computer or device that does not have wireless capabilities or if the devices internal wireless card is not strong enough for your purposes. Setup is very similar to Repeater and WDS mode with the difference being that the AR686WV2 will NOT repeat the wireless signal from the existing network. This is similar to Bridge mode, with the difference being that Client mode will only output signal to a single device on the LAN.

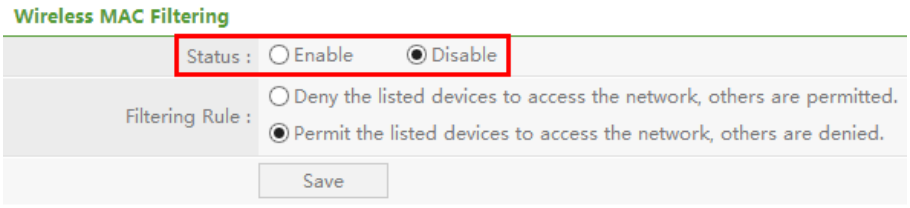
Please see section 3.3.1.1 B for instructions on how to setup Client mode.

3.3.2 MAC Filtering

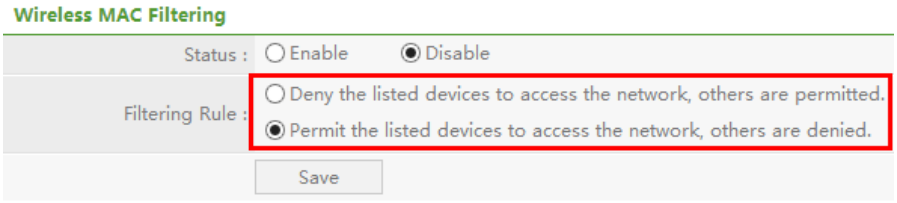
MAC Filtering allows you to control who can connect to your wireless network. Every wireless device has its own unique MAC address. With MAC filtering you can choose who can or who cannot join your network.



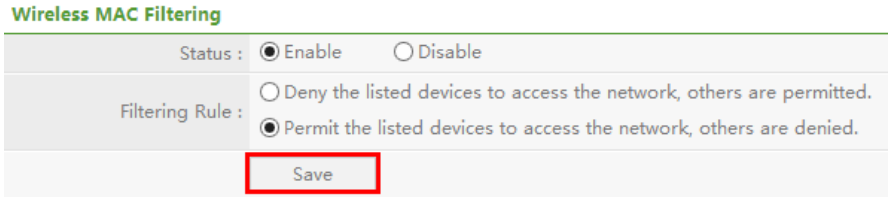
Step 1 Enable or Disable the MAC Filter.


Wireless MAC Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the listed devices to access the network, others are permitted.
Permit the listed devices to access the network, others are denied.
Save

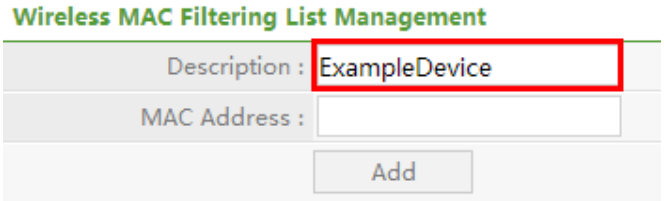
Step 2 Choose whether or not the clients on the list are denied or granted exclusive access to the wireless network.


Wireless MAC Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the listed devices to access the network, others are permitted.
Permit the listed devices to access the network, others are denied.
Save

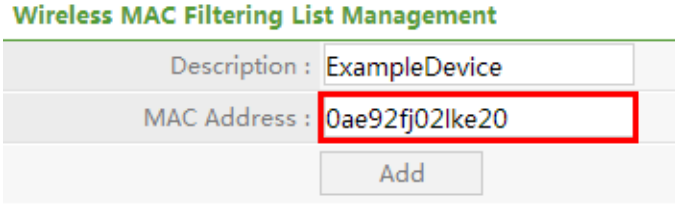
Step 3 Press **Save** to continue.


Wireless MAC Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the listed devices to access the network, others are permitted.
Permit the listed devices to access the network, others are denied.
Save

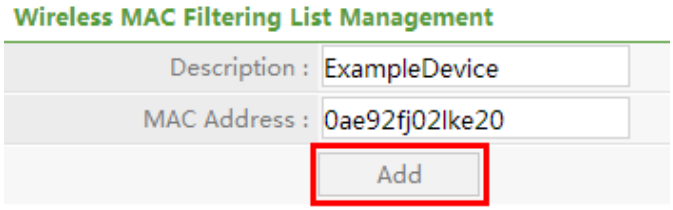
Step 4 Enter a quick description of the device you want to filter.



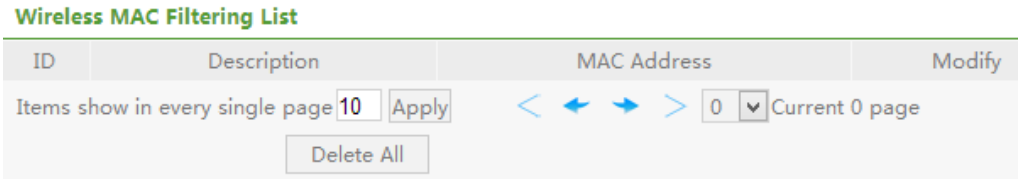
Step 5 Enter the MAC address of the device you want to filter.



Step 6 Press **Add** to create the client profile.

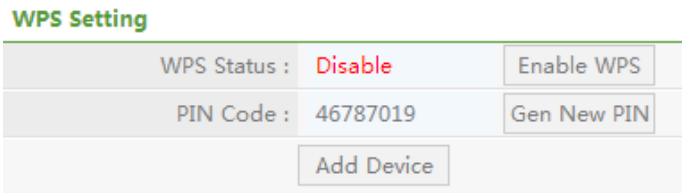


Your full clientelle will be listed below on the **Wireless MAC Filtering List**.



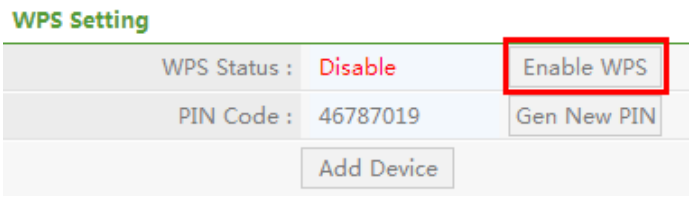
3.3.3 WPS Setting

WPS is a way to connect a wireless device to the network with the press of a button or by entering a PIN.



Connecting to the Router

Press **Enable WPS** in order to activate the WPS function.



Easy Push Button

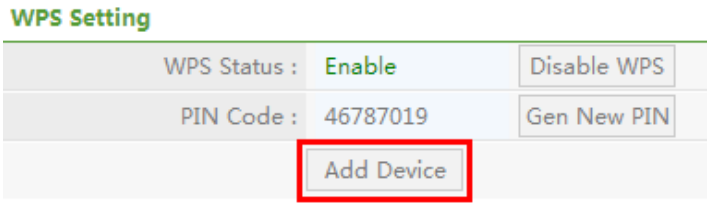
After WPS has been enabled, press the WPS button on the router for 2 seconds and then press the WPS button on your device in order to establish a wireless connection. See your devices User Manual for specific push-button protocol.

PIN Code

Use the PIN code generated by the router to connect with your device. Press **Gen New PIN** if you'd like to create a new PIN for the router.

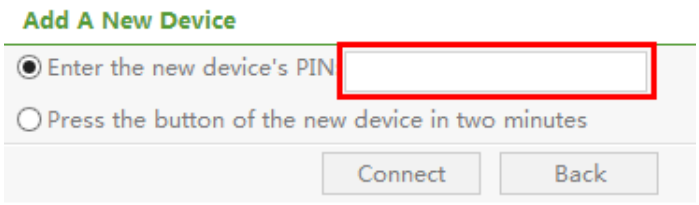
Connecting From the Router

Press **Add Device**.



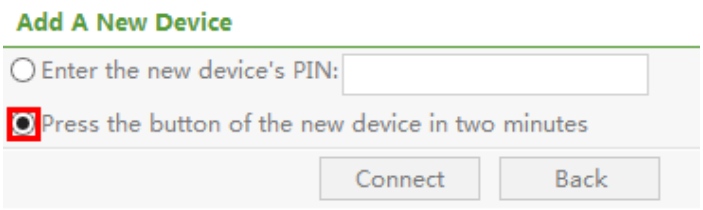
PIN Code

Enter the **PIN** given by the device you'd like to add to the network. Press **Connect** to start the connection.



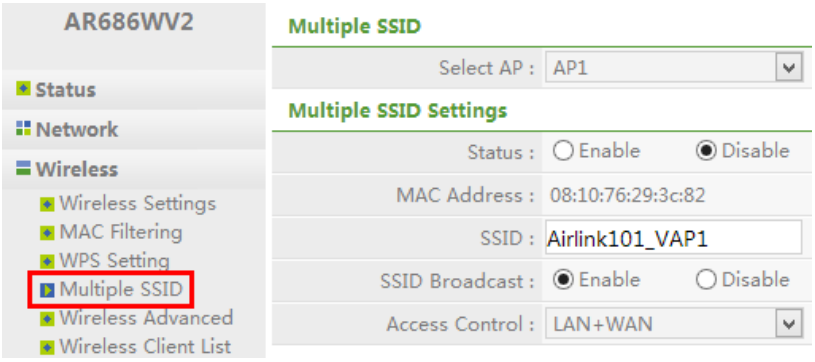
Push Button

You can digitally activate the Easy Push Button by selecting the button option and pressing **Connect**.

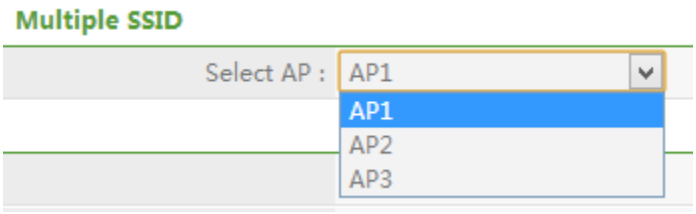


3.3.4 Multiple SSID

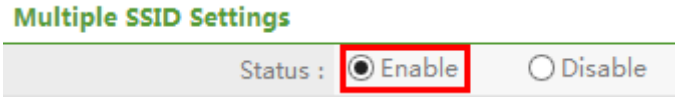
The AR686WV2 is able to broadcast up to 3 additional wireless networks.



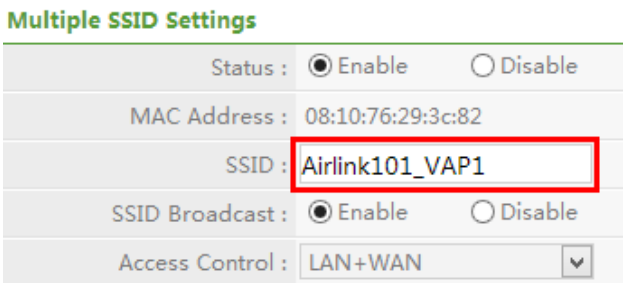
Step 1 Choose which SSID you'd like to configure



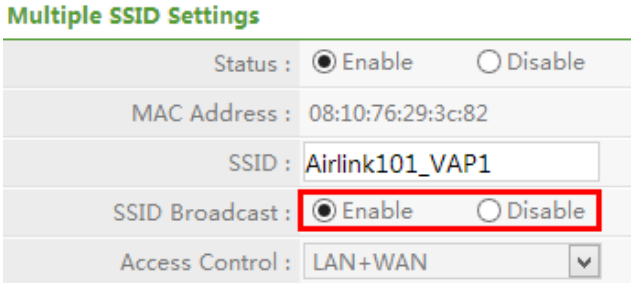
Step 2 Press **Enable** to activate the AP selected in the previous step.



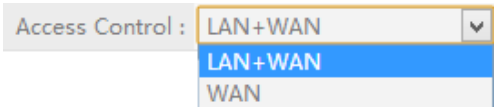
Step 3 Set the **SSID** for the new network. Make sure to name the network differently from the main wireless network.



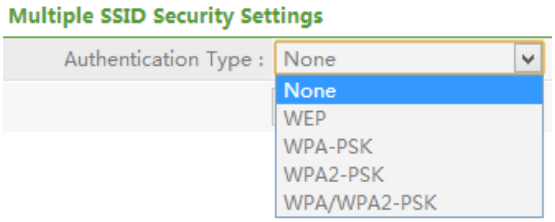
Step 4 **Enable** or **Disable** the **SSID Broadcast** to control whether or not the network is detectable by other network devices.



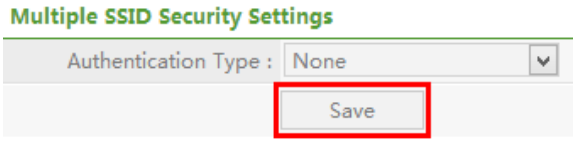
Step 5 Set the **Access Control** of the new network.



Step 6 Choose the **Authentication Type**. Please see section **3.3.1.1 part A** for further instructions on securing the network.



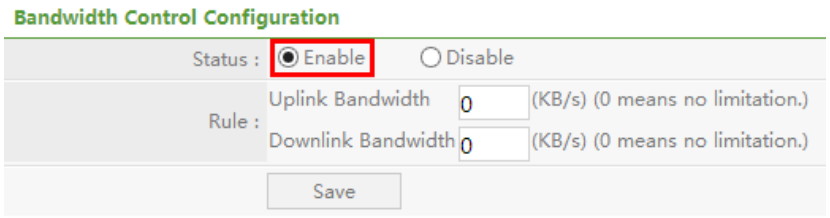
Step 7 Press **Save** to apply the changes.



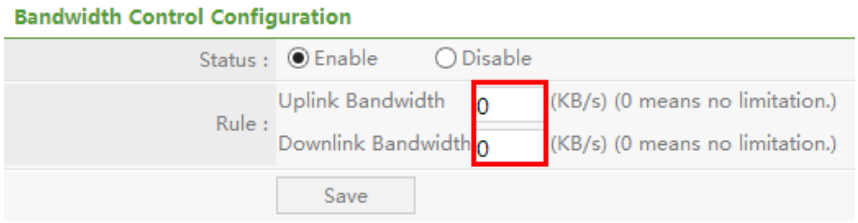
3.4 Bandwidth Control

Bandwidth Control allows you to control the amount of data used by the network. This is especially useful if you have Bandwidth limitations set by your ISP or if a particular network device is taking up too much of your available bandwidth.

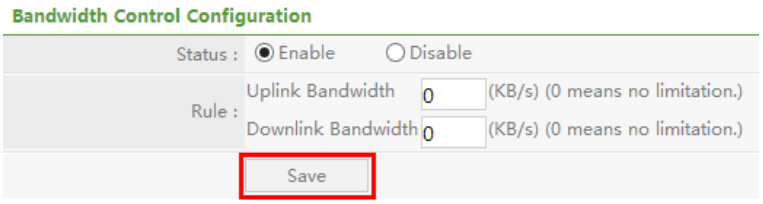
Step 1 Enable Bandwidth control to activate the function.



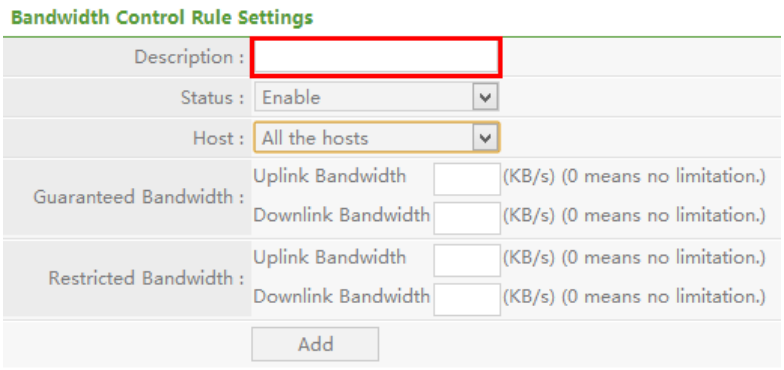
Step 2 Set the Uplink and Downlink limit for the router.



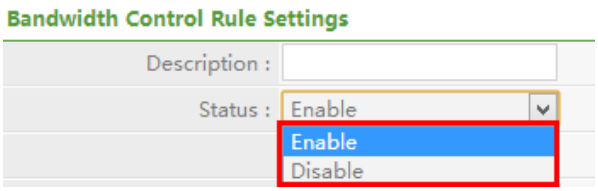
Step 3 Press **Save** to apply the change.



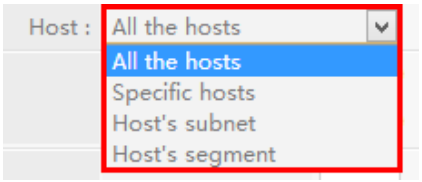
Step 4 Set a **Description** for the device or devices associated with the Bandwidth rule you are setting.


Bandwidth Control Rule Settings
Description :
Status : Enable
Host : All the hosts
Guaranteed Bandwidth :
Uplink Bandwidth (KB/s) (0 means no limitation.)
Downlink Bandwidth (KB/s) (0 means no limitation.)
Restricted Bandwidth :
Uplink Bandwidth (KB/s) (0 means no limitation.)
Downlink Bandwidth (KB/s) (0 means no limitation.)
Add

Step 5 **Enable** or **Disable** the control rule you are setting.



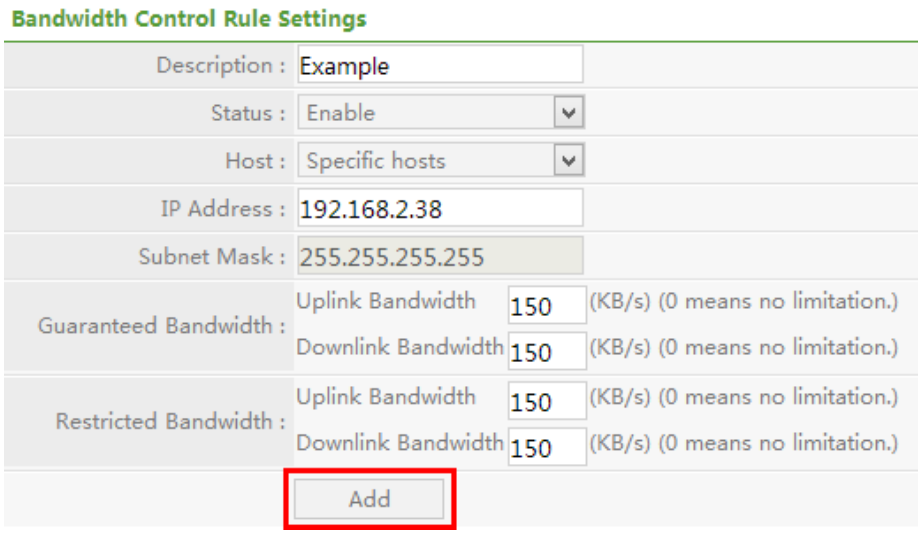
Step 6 Choose the devices that the rule will apply to. You can select all the devices on the network, or use set a rule for a specific device using the IP address or subnet.



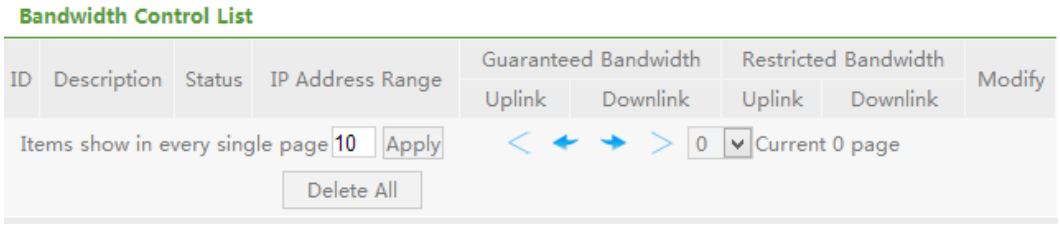
Step 7 Set **Guaranteed Bandwidth Limitation** if you want the device(s) in the rule to be allotted a certain amount of bandwidth. This will prioritize the device(s) in the rule over other clients on the network.

Step 8 Set **Restricted Bandwidth Limitation** if you want to limit the bandwidth allotted to device(s) in the rule. This will restrict how much data the device(s) in the rule can use.

Step 9 Press **Add** to activate the rule.


Bandwidth Control Rule Settings
Description : Example
Status : Enable
Host : Specific hosts
IP Address : 192.168.2.38
Subnet Mask : 255.255.255.255
Guaranteed Bandwidth :
Uplink Bandwidth 150 (KB/s) (0 means no limitation.)
Downlink Bandwidth 150 (KB/s) (0 means no limitation.)
Restricted Bandwidth :
Uplink Bandwidth 150 (KB/s) (0 means no limitation.)
Downlink Bandwidth 150 (KB/s) (0 means no limitation.)
Add

To view or modify the active rules, look at the **Bandwidth Control List.**

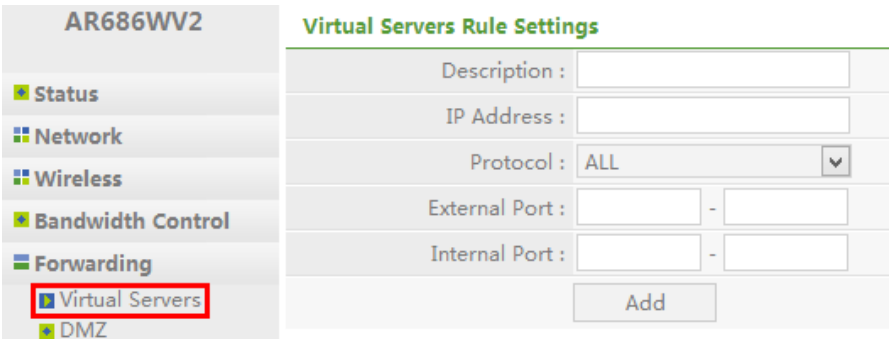


3.5 Forwarding

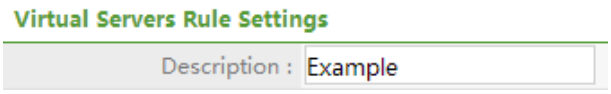
This section covers all the Forwarding functions of your router.

3.5.1 Virtual Server

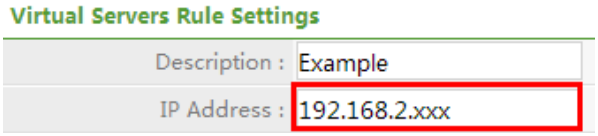
The Virtual Server allows external devices to communicate with devices inside your network over the internet. Set the server rules to control which devices are granted remote access. This feature is also known as Port Forwarding.



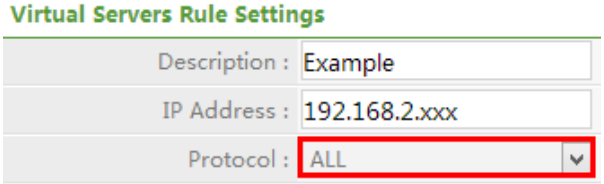
Step 1 Enter a quick description for the network device.



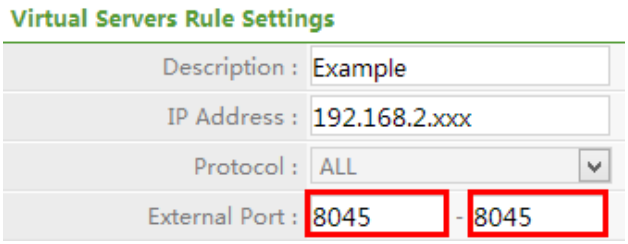
Step 2 Enter the **IP Address** of the device you wish to forward. If you are unsure of the IP Address, you can check your **DHCP Client List** covered in section **3.2.2.**



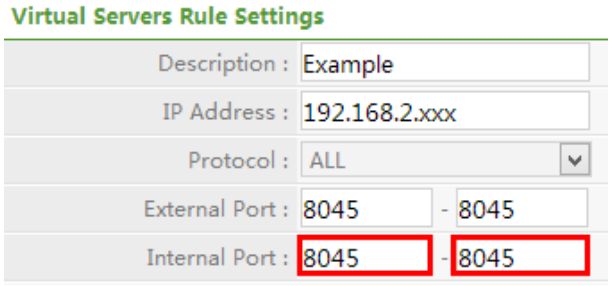
Step 3 Select the **Protocol** you'd like to use for the forwarding service. Select **All** if you are unsure or if there are multiple protocols required for your device.



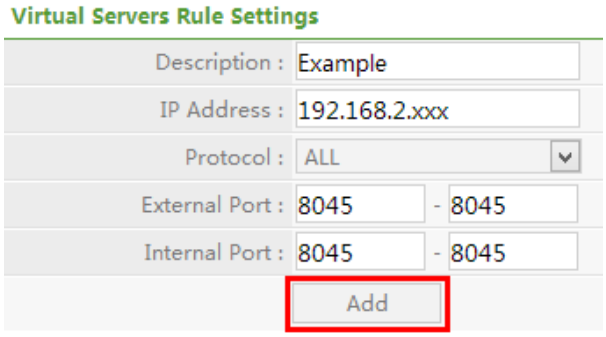
Step 4 Set the **External Port** number or range. This will be the port number needed to access the device from the outside.



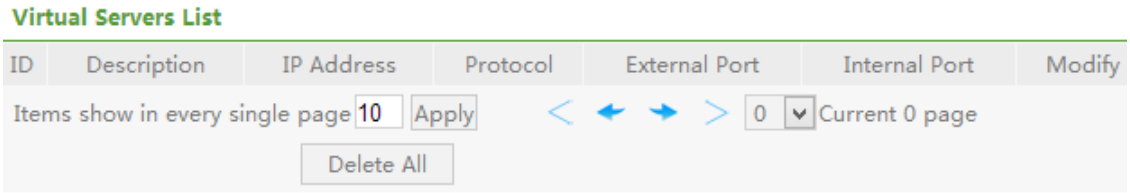
Step 5 Set the **Internal Port** number or range. In most cases the **Internal** and **External** ports will be the same.


Virtual Servers Rule Settings
Description : Example
IP Address : 192.168.2.xxx
Protocol : ALL
External Port : 8045 - 8045
Internal Port : 8045 - 8045

Step 6 Press **Add** to add the new rule to the **Virtual Server.**

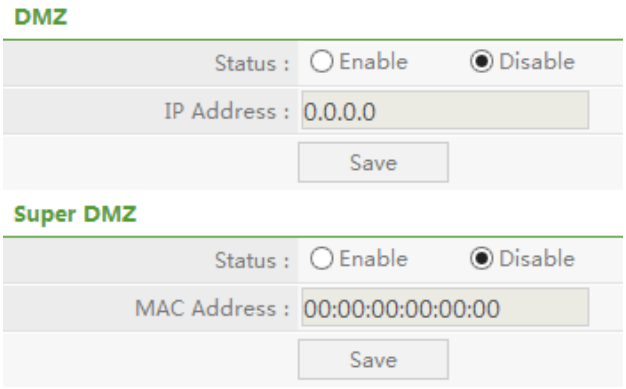


Server Rules can be seen and modified in the Virtual Servers List.



3.5.2 DMZ

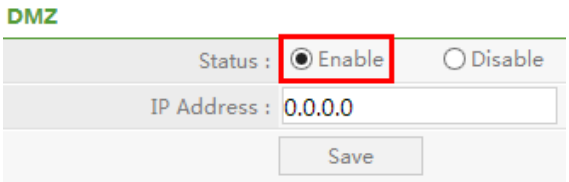
The DMZ (Demilitarized Zone) function allows unregulated communication for a specific device on the network. We don't recommend using DMZ unless the device you are using will not work behind a Firewall.



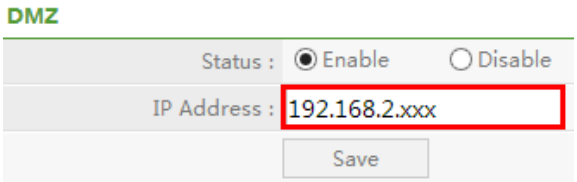
There are two different types of DMZ connections:

1. DMZ – Regular DMZ where the IP address assigned will have unregulated communication with outside devices.

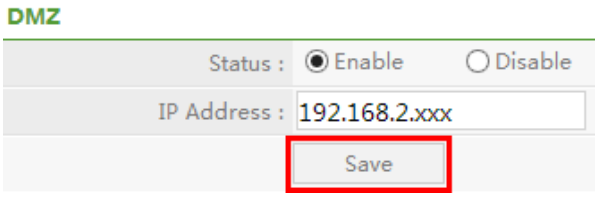
Step 1 Select **Enable** to activate the DMZ function.



Step 2 Enter the IP Address of the device that you'd like to place in the DMZ.

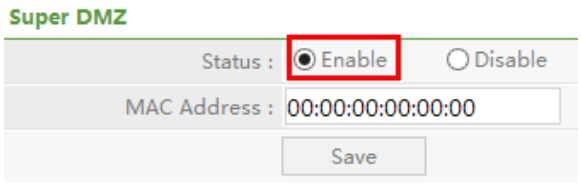


Step 3 Press **Save** to apply the change.

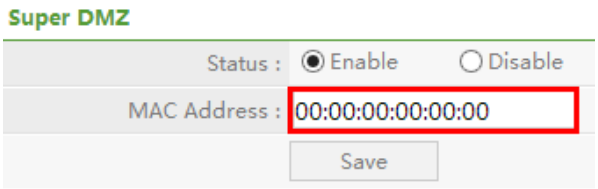


2. Super DMZ – Super DMZ assigns the WAN IP address to the device. This may affect other clients on your LAN.

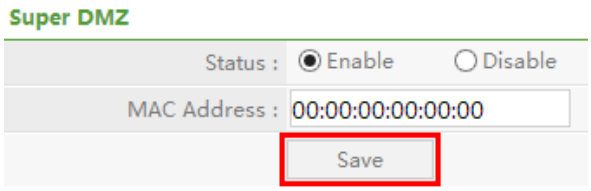
Step 1 Select **Enable** to activate the Super DMZ function.



Step 2 Enter the **MAC Address** of the network device that will be set to the Super DMZ. The device will be assigned the WAN IP Address.

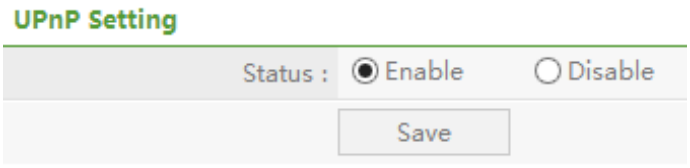


Step 2 Press **Save** to apply the change.



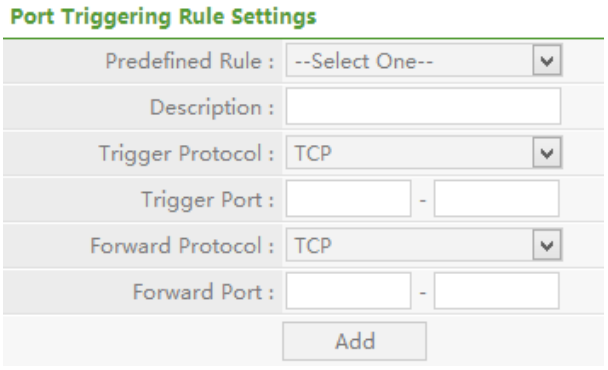
3.5.3 UPnP

UPnP (Universal Plug and Play) is automatically enabled. Here you can enable or disable UPnP function.

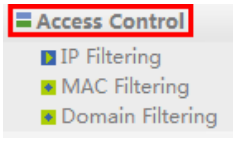


3.5.4 Port Triggering

Port Triggering is very similar to Port Forwarding and is used for special applications. Please see section **3.5.1** for more information on how to configure Port Triggering Rules.



3.6 Access Control

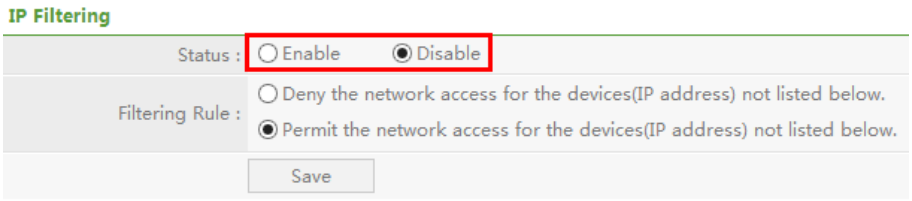


You can control how or when clients in the network communicate with each other and with the internet.

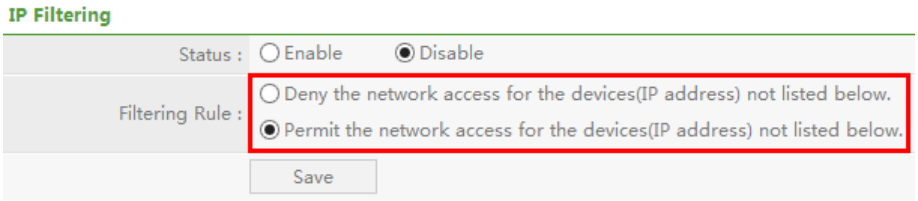
3.6.1 IP Filtering

IP Filtering allows you to control who can connect to your wireless network. This is similar to the MAC filtering covered in **Section 3.3.2**, but the devices are identified by their IP addresses and you can schedule specific times for the rules you set.

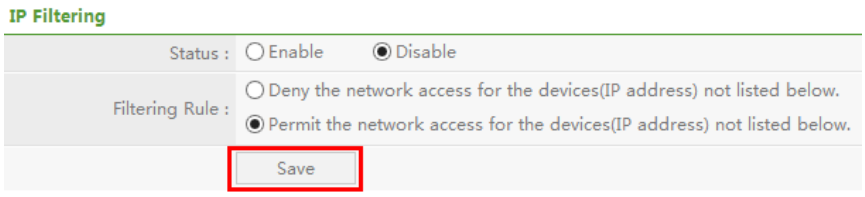
Step 1 Enable or Disable the IP Filter.


IP Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the network access for the devices(IP address) not listed below.
Permit the network access for the devices(IP address) not listed below.
Save

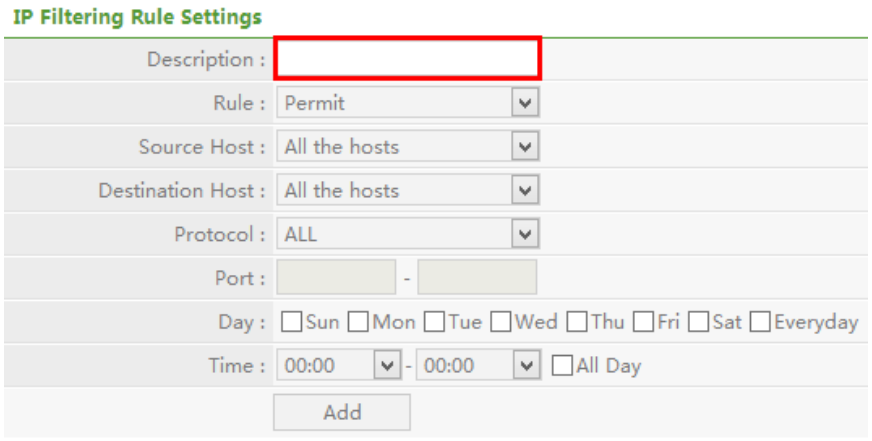
Step 2 Choose whether or not the clients on the list are denied or granted exclusive access to the wireless network.


IP Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the network access for the devices(IP address) not listed below.
Permit the network access for the devices(IP address) not listed below.
Save

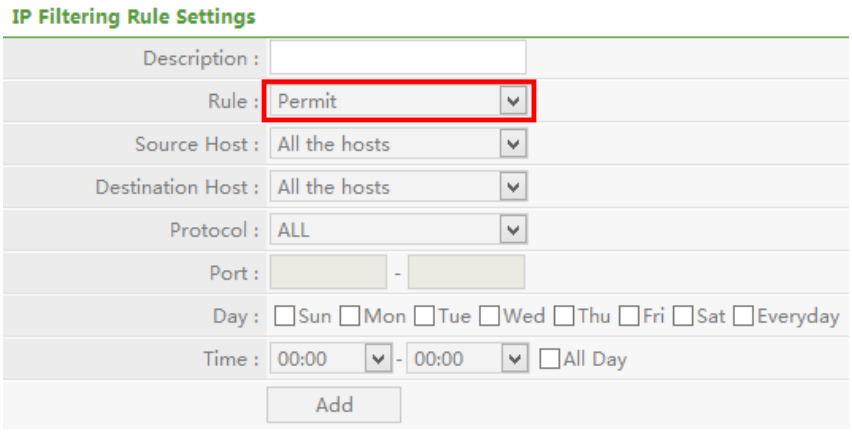
Step 3 Press **Save** to continue.


IP Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the network access for the devices(IP address) not listed below.
Permit the network access for the devices(IP address) not listed below.
Save

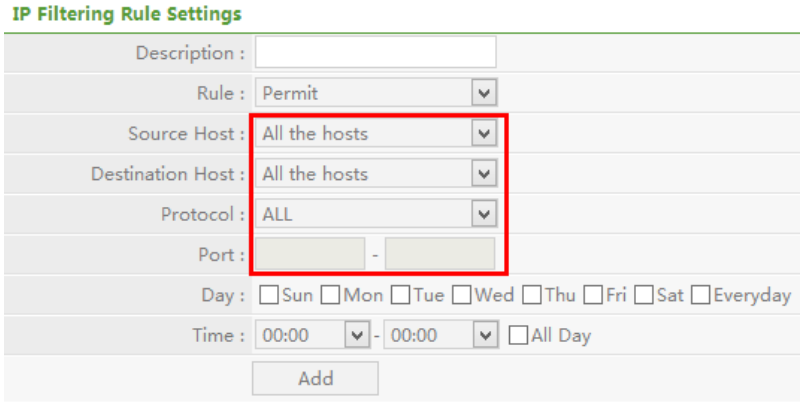
Step 4 Enter a quick description of the device you want to filter.


IP Filtering Rule Settings
Description :
Rule : Permit
Source Host : All the hosts
Destination Host : All the hosts
Protocol : ALL
Port : -
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

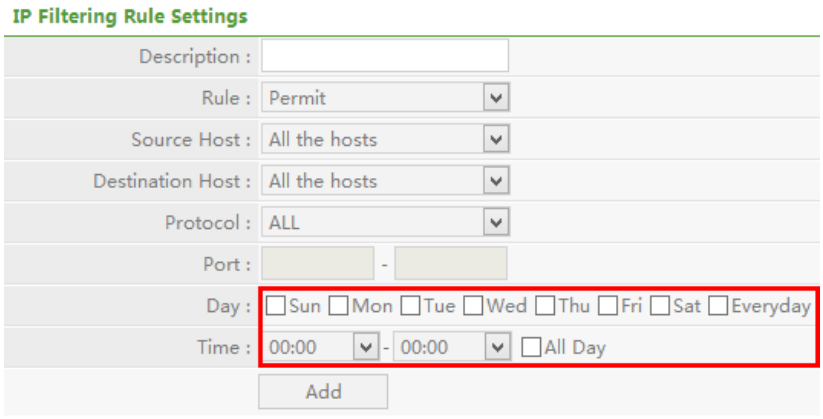
Step 5 Set the whether or not the new Rule allows or denies access.


IP Filtering Rule Settings
Description :
Rule : Permit
Source Host : All the hosts
Destination Host : All the hosts
Protocol : ALL
Port : -
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

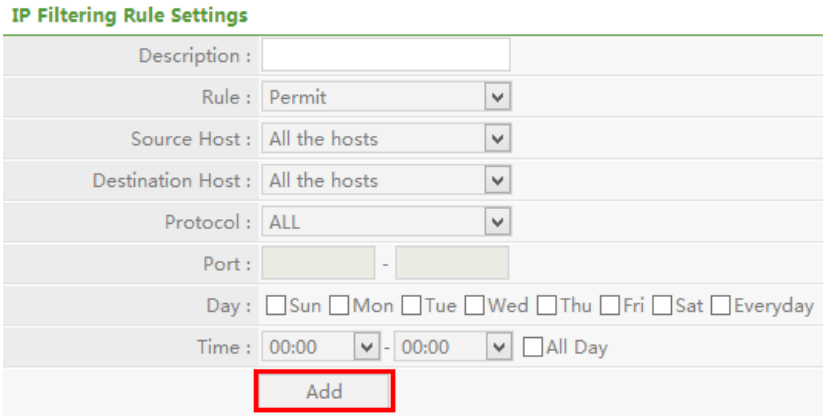
Step 6 Enter the IP information of the device you want to filter.


IP Filtering Rule Settings
Description :
Rule : Permit
Source Host : All the hosts
Destination Host : All the hosts
Protocol : ALL
Port : -
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

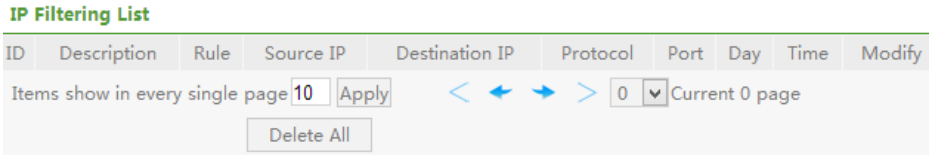
Step 7 Set the **Day(s)** and **Time(s)** you'd like the rule to be active.


IP Filtering Rule Settings
Description :
Rule : Permit
Source Host : All the hosts
Destination Host : All the hosts
Protocol : ALL
Port :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

Step 8 Press **Add** to create the client profile.


IP Filtering Rule Settings
Description :
Rule : Permit
Source Host : All the hosts
Destination Host : All the hosts
Protocol : ALL
Port :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

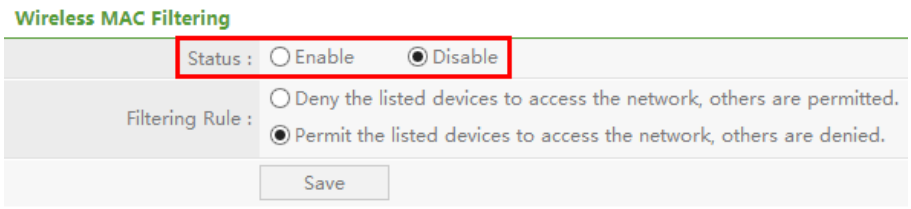
Your full clientelle will be listed below on the **IP Filtering List**.


IP Filtering List
ID Description Rule Source IP Destination IP Protocol Port Day Time Modify
Items show in every single page 10 Apply
0 Current 0 page
Delete All

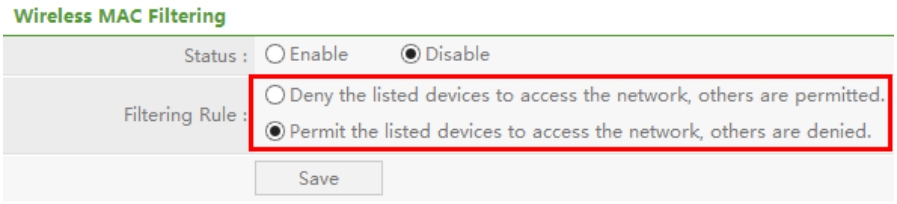
3.6.2 MAC Filtering

MAC Filtering allows you to control who can connect to your wireless network. This is similar to the MAC filtering covered in **Section 3.3.2** with the addition of scheduling options.

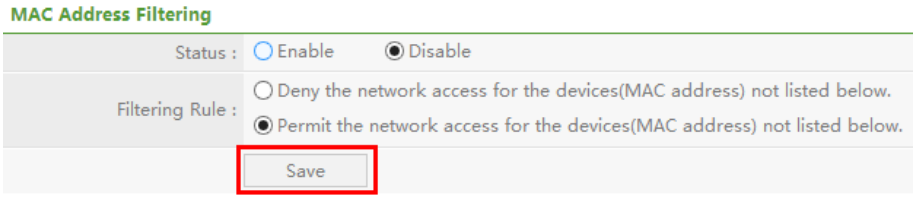
Step 1 Enable or Disable the MAC Filter.


Wireless MAC Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the listed devices to access the network, others are permitted.
Permit the listed devices to access the network, others are denied.
Save

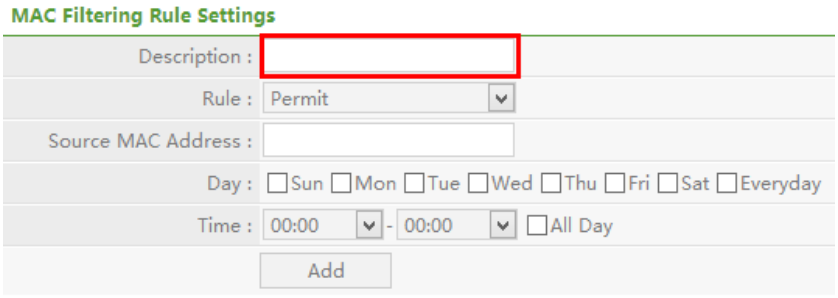
Step 2 Choose whether or not the clients on the list are denied or granted exclusive access to the wireless network.


Wireless MAC Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the listed devices to access the network, others are permitted.
Permit the listed devices to access the network, others are denied.
Save

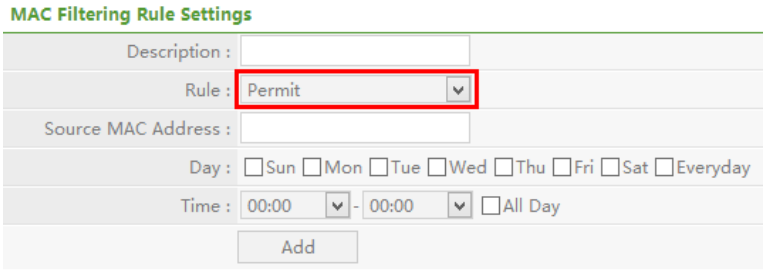
Step 3 Press **Save** to continue.


MAC Address Filtering
Status :
Enable
Disable
Filtering Rule :
Deny the network access for the devices(MAC address) not listed below.
Permit the network access for the devices(MAC address) not listed below.
Save

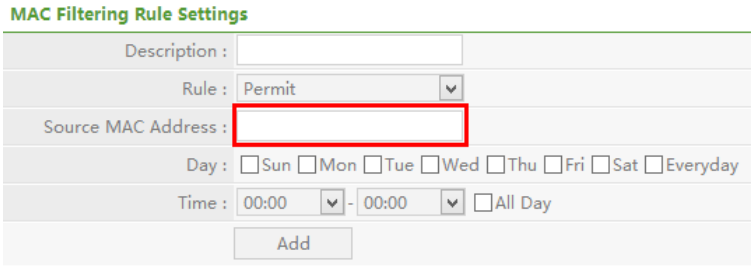
Step 4 Enter a quick description of the device you want to filter.



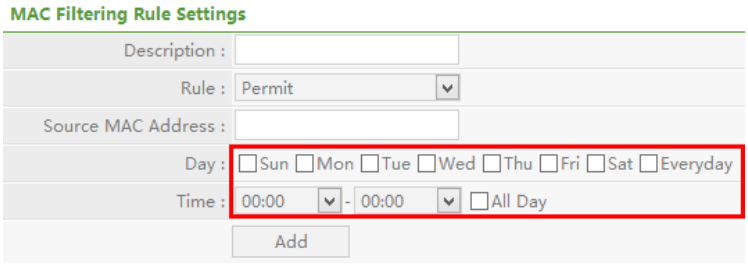
Step 5 Set the whether or not the new Rule allows or denies access.


MAC Filtering Rule Settings
Description :
Rule : Permit
Source MAC Address :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

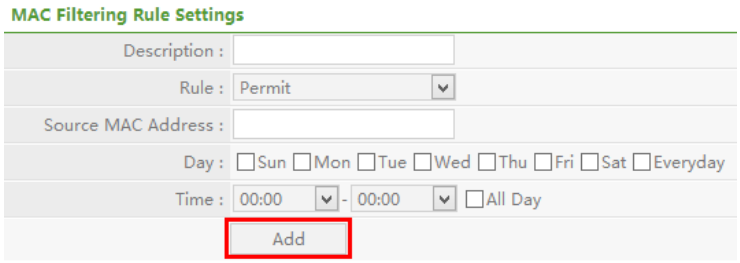
Step 6 Enter the MAC address of the device you want to filter.


MAC Filtering Rule Settings
Description :
Rule : Permit
Source MAC Address :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

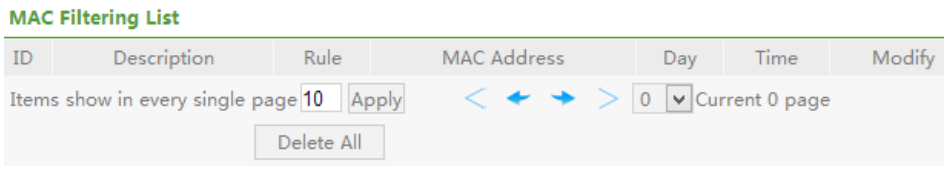
Step 7 Set the **Day(s)** and **Time(s)** you'd like the rule to be active.


MAC Filtering Rule Settings
Description :
Rule : Permit
Source MAC Address :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

Step 8 Press **Add** to create the client profile.


MAC Filtering Rule Settings
Description :
Rule : Permit
Source MAC Address :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

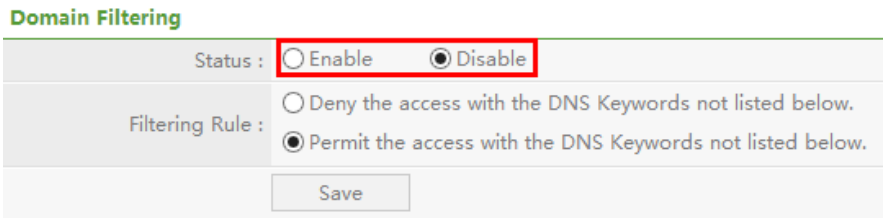
Your full clientelle will be listed below on the **MAC Filtering List**.



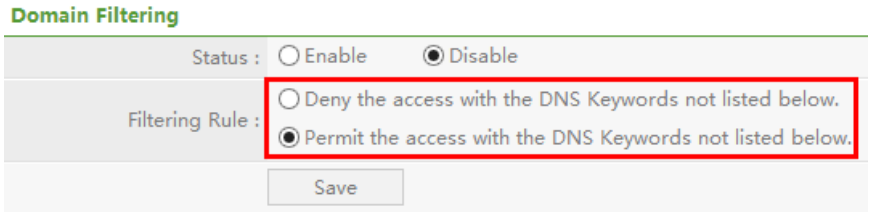
3.6.3 Domain Filtering

Domain Filtering allows you to control which websites clients can or cannot access based on key words.

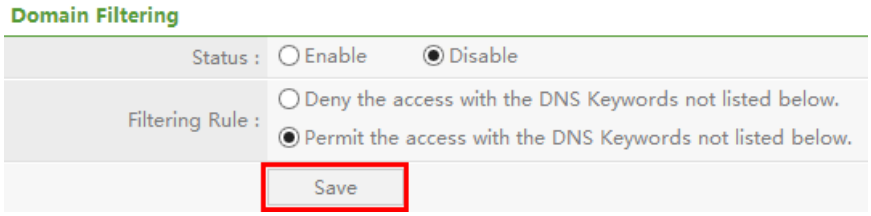
Step 1 **Enable** or **Disable** the function.



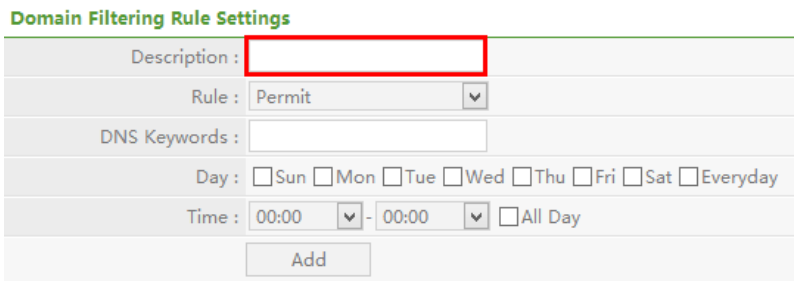
Step 2 Choose whether or not the domains will be denied or granted access.



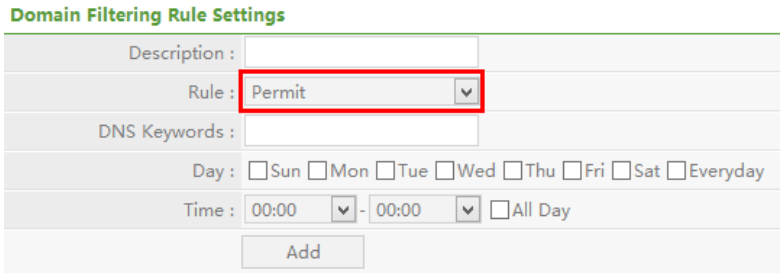
Step 3 Press **Save** to apply the changes.



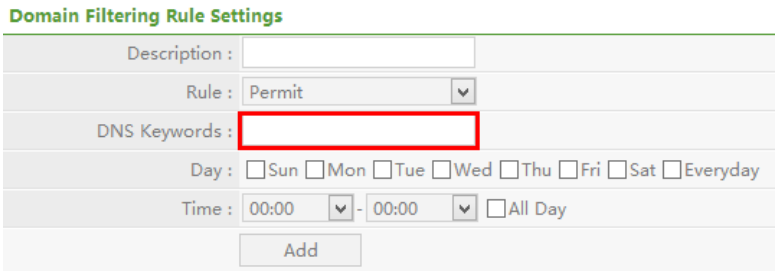
Step 4 Enter a quick description of the domain you want to filter.



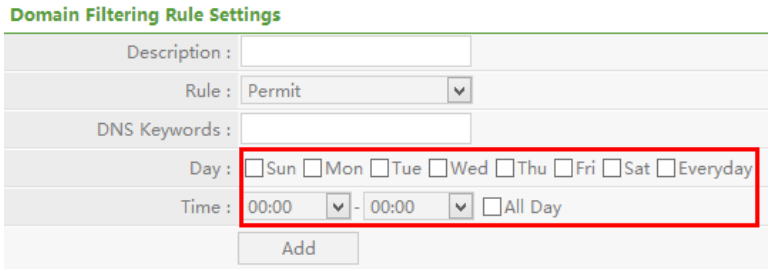
Step 5 Choose whether the rule will **Permit** or **Deny** access to websites in the rule.


Domain Filtering Rule Settings
Description :
Rule : Permit
DNS Keywords :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

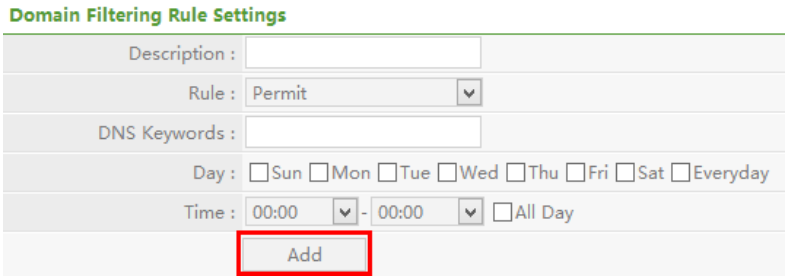
Step 6 Enter the **Keywords** for the domains you'd like to filter. Any website name containing the **Keywords** will be affected by the filter.


Domain Filtering Rule Settings
Description :
Rule : Permit
DNS Keywords :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

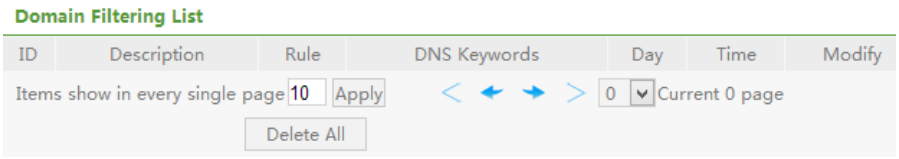
Step 7 Set the **Day(s)** and **Time(s)** you'd like the rule to be active


Domain Filtering Rule Settings
Description :
Rule : Permit
DNS Keywords :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

Step 8 Press **Add** to create the new Domain rule.


Domain Filtering Rule Settings
Description :
Rule : Permit
DNS Keywords :
Day : Sun Mon Tue Wed Thu Fri Sat Everyday
Time : 00:00 - 00:00 All Day
Add

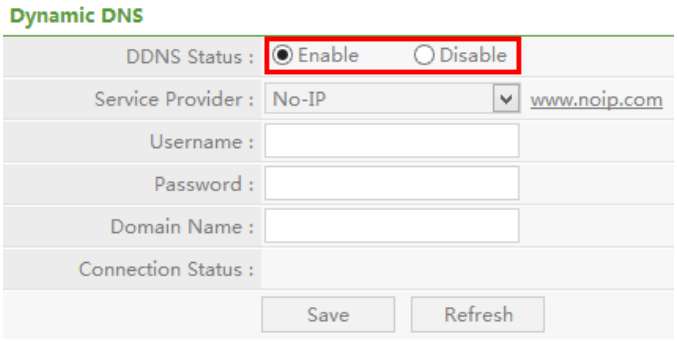
Your Domain rules will be listed below on the **Domain Filtering List**.



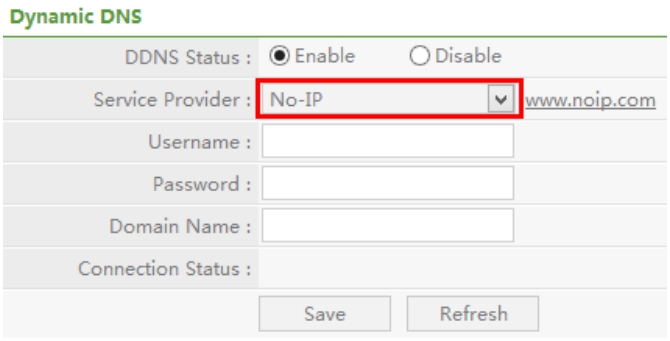
3.7 Dynamic DNS

You may set up **DDNS** access to the router in order to reach the router from outside the network.

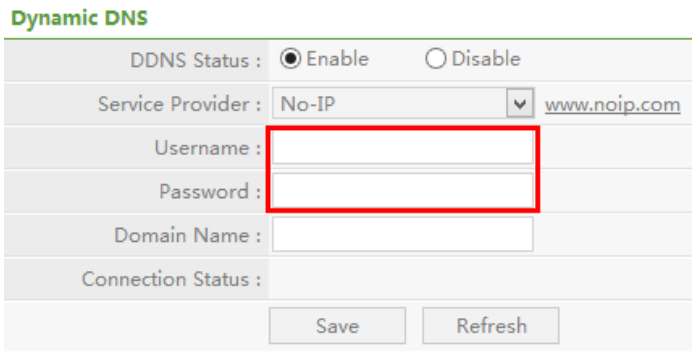
Step 1 Choose to **Enable** or **Disable** the DDNS feature.



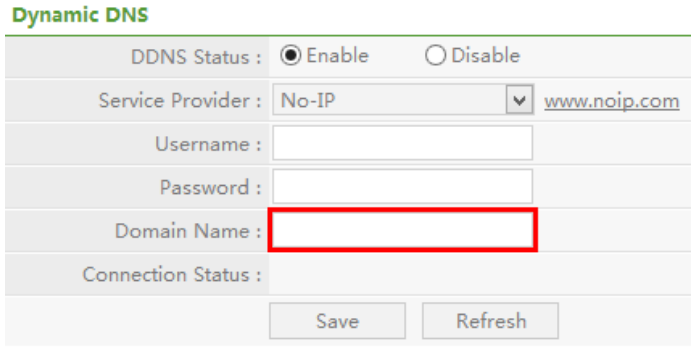
Step 2 Select the **DDNS Service Provider** that you use.



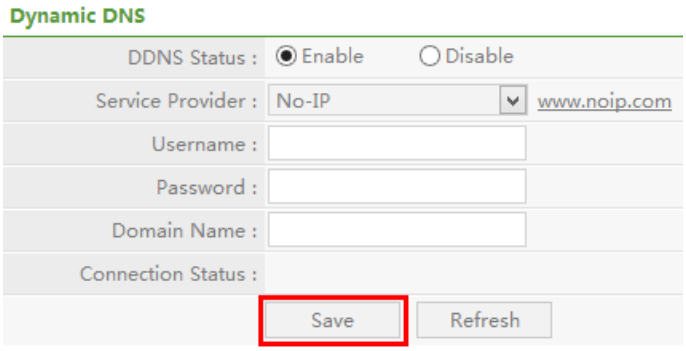
Step 3 Enter the **Username** and **Password** associated with your DDNS account.



Step 4 Enter the **Domain Name**(web address) registered to your DDNS account.

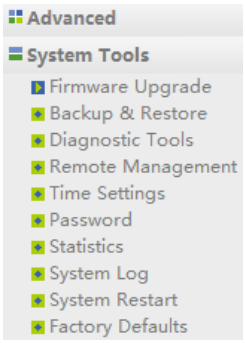


Step 5 Press **Save** to apply the changes and check your connection in the **Connection Status** box.



3.8 System Tools

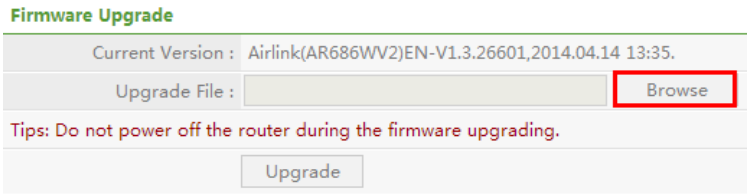
Use the System Tools for general Router maintenance and configuration.



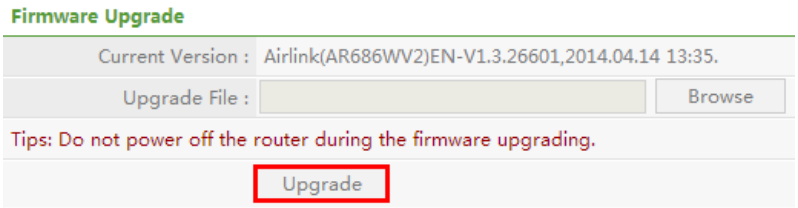
3.8.1 Firmware Upgrade

Firmware Upgrades can be done within the System Tools. It is recommended to connect directly to the router through one of the LAN ports when performing a Firmware Upgrade.

Step 1 Select **Browse** to select the new firmware file.

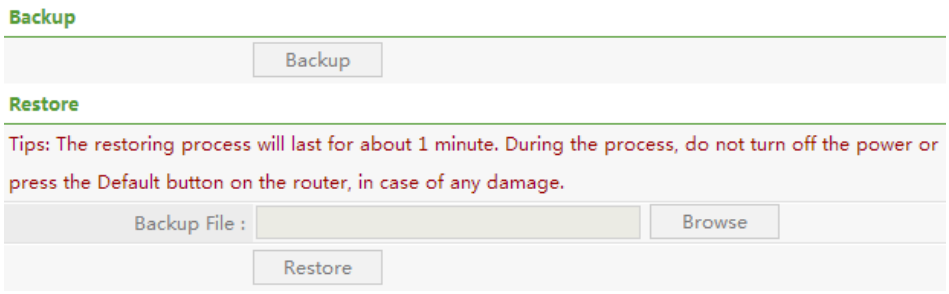


Step 1 Press **Upgrade** in order to start the upgrade.

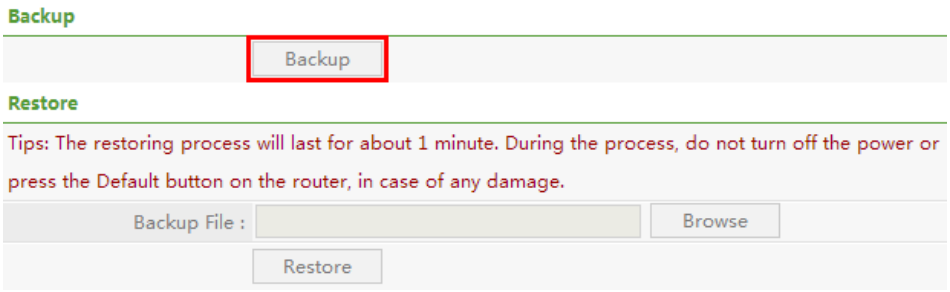


3.8.2 Backup & Restore

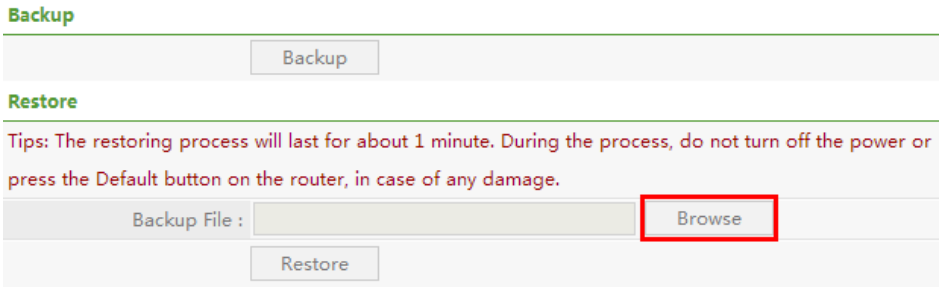
You may save your configurations here or load a previously saved router configuration.


Backup
Backup
Restore
Tips: The restoring process will last for about 1 minute. During the process, do not turn off the power or press the Default button on the router, in case of any damage.
Backup File :
Browse
Restore

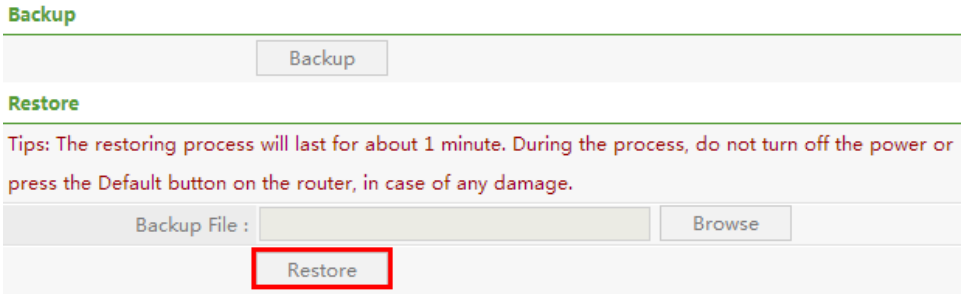
Step 1 Select **Backup** in order to save your current router configuration.


Backup
Backup
Restore
Tips: The restoring process will last for about 1 minute. During the process, do not turn off the power or press the Default button on the router, in case of any damage.
Backup File :
Browse
Restore

Step 2 Use the **Browse** button to search for saved configurations.


Backup
Backup
Restore
Tips: The restoring process will last for about 1 minute. During the process, do not turn off the power or press the Default button on the router, in case of any damage.
Backup File :
Browse
Restore

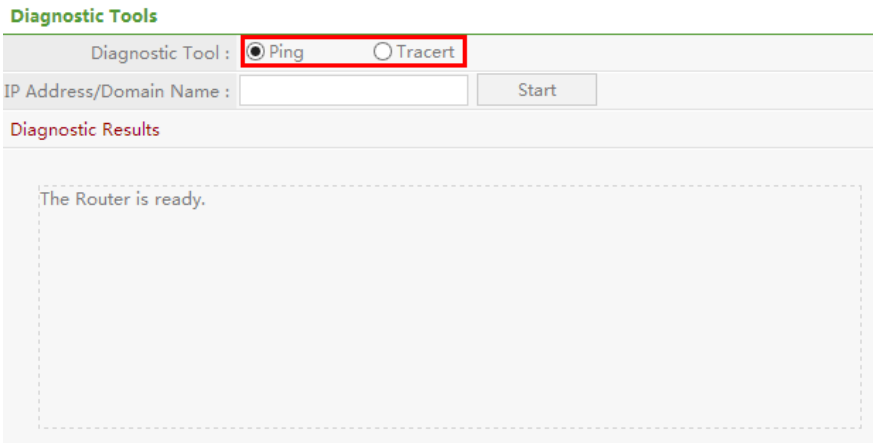
Step 3 Press **Restore** in order to load the configuration that you have chosen.


Backup
Backup
Restore
Tips: The restoring process will last for about 1 minute. During the process, do not turn off the power or press the Default button on the router, in case of any damage.
Backup File :
Browse
Restore

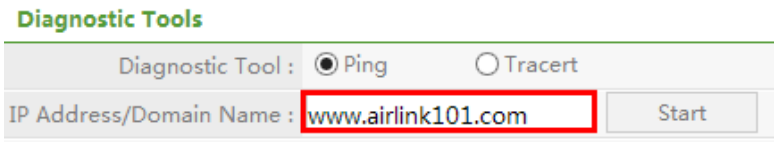
3.8.3 Diagnostic Tools

Diagnostic Tools allow you to perform simple troubleshooting to see if the router is connected to the internet.

Step 1 Select which type of diagnostic test you'd like to perform.



Step 2 Enter the IP Address or website that you would like to test.



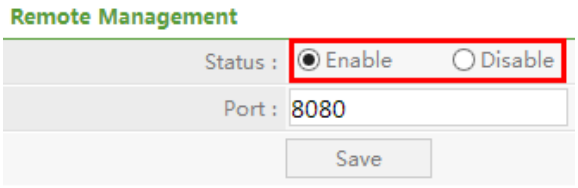
Step 3 Click on **Start** to begin the diagnostic test. Press **End** if you'd like to end the test.

Diagnostic Tools
Diagnostic Tool :
Ping
Tracert
IP Address/Domain Name :
www.airlink101.com
Start
Diagnostic Results
PING airlink101.com (67.210.97.210): 56 data bytes
64 bytes from 67.210.97.210: icmp_seq=0 ttl=53 time=30.0 ms
64 bytes from 67.210.97.210: icmp_seq=1 ttl=53 time=20.0 ms
--- airlink101.com ping statistics ---
4 packets transmitted, 2 packets received, 50% packet loss
round-trip min/avg/max = 20.0/25.0/30.0 ms

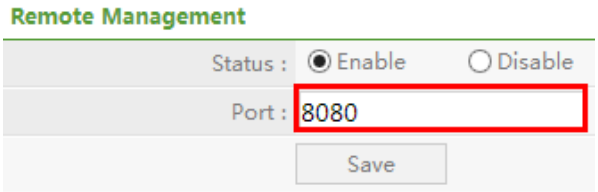
3.8.4 Remote Management

Remote Management allows you to access your router via the internet. This is useful to check on your network when away from home or to allow someone else in to help you configure your router. For security reasons, this feature is disabled by default and we do not recommend leaving this feature on unless you have set a new username and password on the router. Even if you have a complex login for the router, we recommend to only turn this feature on when needed.

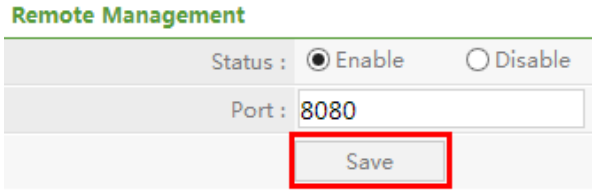
Step 1 **Enable** the function to begin Remote Management.



Step 3 Set a port for the Remote Access. We recommend leaving it to 8080 unless your firewall requires the use of a different port.



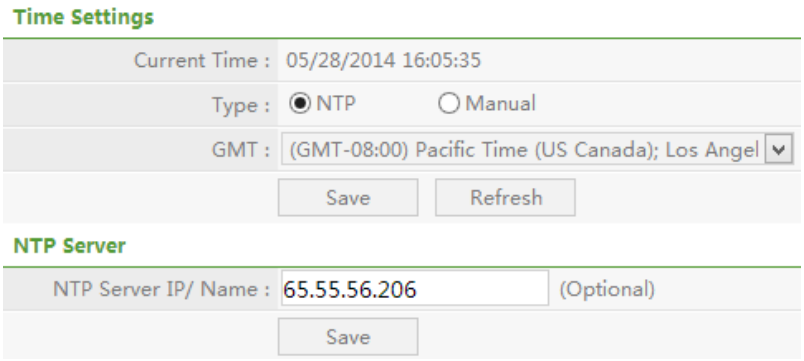
Step 3 Click **Save** apply the change.



Step 4 Use the **Port Number** you set in **Step 2** at the end of you external IP. For example, if my external IP address is http://65.125.145.301, I will use http://65.125.145.301:8080 to reach the router.

3.8.5 Time Management

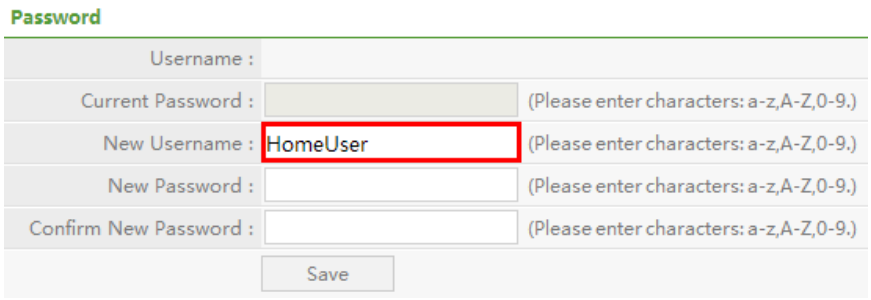
Adjust the internal clock of your Router. This is a very important step if you have enabled any rules that run on a schedule. Select the NTP (Network Time Protocol) of your time zone or manually enter the time yourself. If you have your own NTP server, you may also use that to set your router's clock.



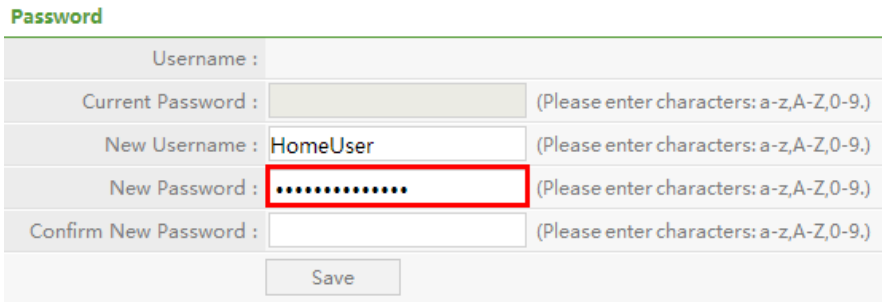
3.8.6 Password

It is recommended that you set a Username and Password on the router in order to protect your privacy and make sure no one tampers with your configurations. This is especially important if you have enabled Remote Access to the router through features such as DDNS or Remote Management.

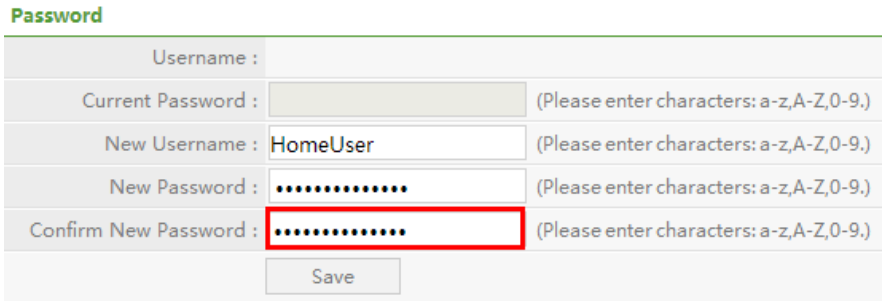
Step 1 Set the **username** you wish to use. Please note that the username is case-sensitive.


Password
Username :
Current Password : (Please enter characters: a-z,A-Z,0-9.)
New Username : HomeUser (Please enter characters: a-z,A-Z,0-9.)
New Password : (Please enter characters: a-z,A-Z,0-9.)
Confirm New Password : (Please enter characters: a-z,A-Z,0-9.)
Save

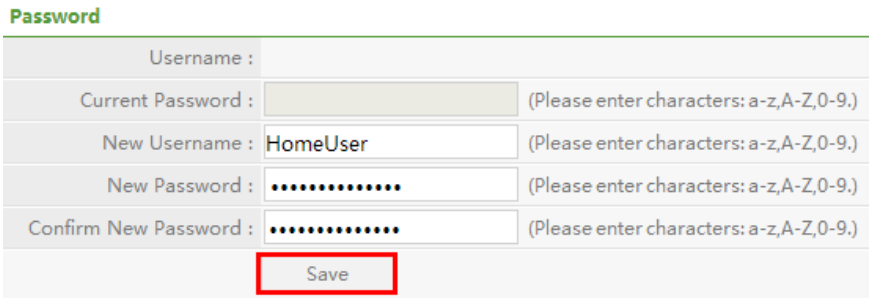
Step 2 Type the **password** that you would like to use. Please note that the password is case-sensitive.



Step 3 Confirm your new **password** by retyping the password in the box.

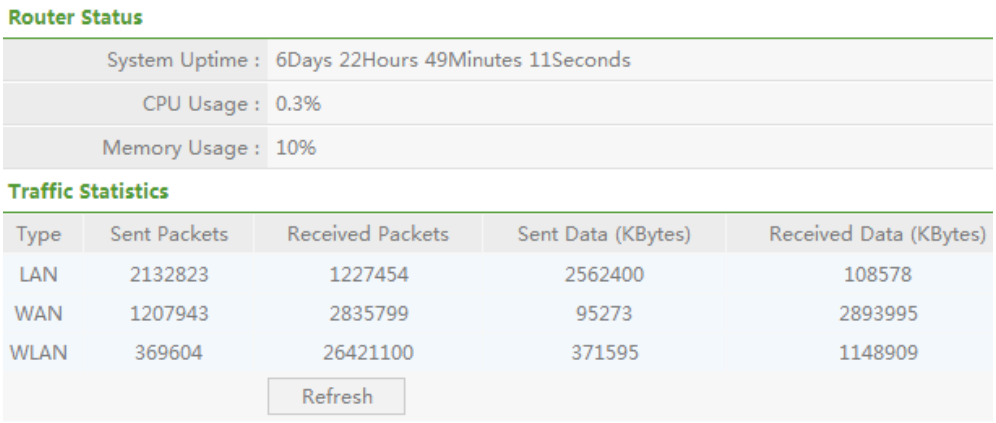


Step 4 **Save** your changes.



3.8.7 Statistics

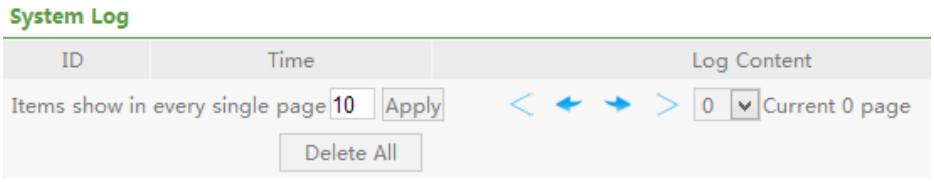
View router activity and performance here. Press **Refresh** in order to update the page.


Router Status
System Uptime : 6Days 22Hours 49Minutes 11Seconds
CPU Usage : 0.3%
Memory Usage : 10%
Traffic Statistics
Type Sent Packets Received Packets Sent Data (KBytes) Received Data (KBytes)
LAN 2132823 1227454 2562400 108578
WAN 1207943 2835799 95273 2893995
WLAN 369604 26421100 371595 1148909
Refresh

Parameter	Description
System Uptime	Displays the amount of time the router has been running.
CPU Usage	Displays the current use of the processor (CPU).
Memory Usage	Displays the current use of the memory (RAM).
LAN	View data usage of all devices connected to the LAN ports of the router.
WAN	View data usage of the WAN connection to your ISP.
WLAN	View data usage of all devices connected to the wireless network.

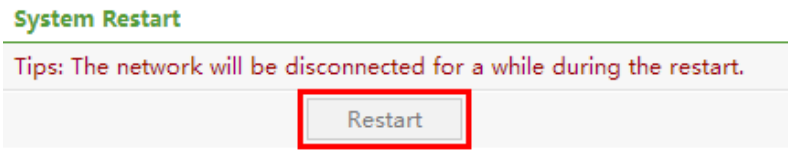
3.8.8 System Log

View past events on the **System Log**. The Log is active as long as the router is running. You may scroll pages to see older events or delete the history by selecting **Delete All.**



3.8.9 System Restart

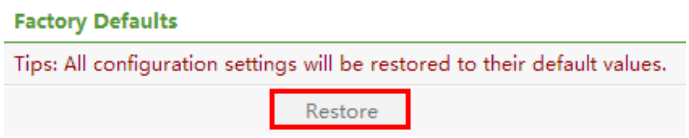
Restart the entire router here. Simply press **Restart** and the router will shut itself down before automatically powering back up. Make sure the power chord remains attached or the router will not restart.



3.8.10 Factory Default

You can reset the router to factory conditions by using the Factory Default function. Please note that this will wipe any and all prior configurations you may have made.

Press **Restore** and wait for the router to reset. Do no unplug the power during this process.



Chapter 4 Appendix

4.1 Hardware Specification

Standards

- IEEE 802.11b / g / n
- IEEE 802.3, 802.3u, 802.3ab

Frequency

- 2.4GHz

Ports

- 1 x 10/100Mbps WAN port
- 4 x 10/100Mbps LAN port

Antenna type

- Two 1.8dBi un-detachable dipole antennas

Operation Modes

- AP
- WDS
- AP+WDS
- Repeater
- Client

Security

- WEP 64/128-bit
- WPA, WPA2, WPA2-PSK, WPA-PSK

LEDs

- Power, Status, WAN, WLAN, LAN1~4

Advanced Features

- NAT session
- SPI Firewall
- DoS Protection
- Static and Dynamic route

System Requirement

- Windows®, Mac®, or Linux® operating system
- Installed Ethernet adapter
- Recommended use with Airlink101® Wireless N 300 products

Power

- DC 5V / 1A

Dimensions

- 156 x 110 x 22 mm (L x W x H)

Temperature

- Operating: 0ºC to 40ºC

Humidity

- Operating: 10% to 90% Non-Condensing

Warranty

- Limited 1-year warranty

Certification

- FCC, CE

Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Website: www.airlink101.com

*Theoretical maximum wireless signal rate derived from IEEE standard 802.11 specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate. Compatibility with 802.11n devices from other manufactures is not guaranteed. Specifications are subject to change without notice. Photo of product may not reflect actual content. All products and trademarks are the property of their respective owners. Copyright ©2014 Airlink101®

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